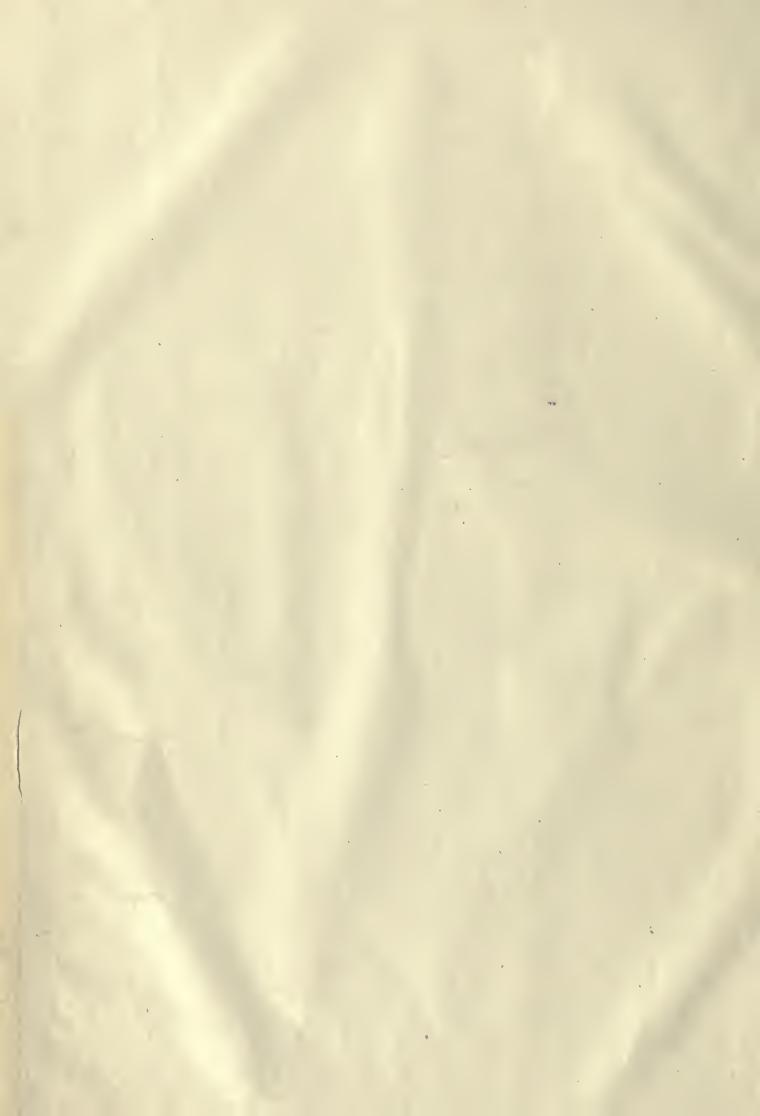




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DOUBLEDAY, PAGE & CO.'S
GEOGRAPHICAL MANUAL AND NEW ATLAS

PUBLISHERS' FOREWORD

Dr. C. O. S. Mawson, the author of this work, is not only a scholar of established reputation, but has actually visited most of the countries herein described. His statements therefore have the additional weight of first-hand knowledge, while his exceptional training has enabled him to select and present his facts with authority, lucidity, and with due regard for their relative values.

Doubleday, Page & Company

DOUBLEDAY, PAGE & CO'S GEOGRAPHICAL MANUAL AND NEW ATLAS

C. O. SYLVESTER MAWSON, LITT. D., Ph. D.



Maps of To-day and To-morrow

New Maps will replace Old after the Great War



GARDEN CITY NEW YORK
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1917

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PREFACE

WHENEVER a new publication is presented to the public the assumption is that the need for such a book is more or less real. In the case of Doubleday, Page & Co.'s Geo-GRAPHICAL MANUAL AND NEW ATLAS this need is not only a real but an urgent one. If any existing publication filled the present want, this book would not have been pre-pared. Atlases there are—and excellent ones, too. Geographical manuals there are—some of them good so far as hey go. But this book is different. It is not only an Atlas and a complete geographical reference work besides, but its aim is to link up geographical information with present-day requirements; to serve as a companion to the modern history, and more especially to that great history drama which is being unfolded before our eyes and recorded in our daily newspapers. In short, its aim is to be the "guide, philosopher, and friend" of every observant reader and student of affairs.

The world is moving so rapidly in our generation that facts learned at school are more or less antiquated in early manhood. The old familiar landmarks are being ruthlessly swept away in the rush of international greed or enterprise. Even geographical names are not constant, and track must be kept of every change. As new regions are opened up to civilization, a knowledge of railway routes becomes as important to-day as a knowledge of waterways did yesterday. Again, products and industries are of supreme importance in this commercial age. A great industrial nation like the United States requires not only an assured supply of raw materials, but foreign markets for its manufactured goods. To the perpetual questions "Where?" "What?" "Why?" and "How?" this book seeks to provide an answer.

Europe claims our attention not only on account of the Great War, but because it is America's best customer. United States is essentially a vital part of the Europe of today, bound by ties of blood to every European nation great or small. Yet not sentiment alone but sheer self-interest should compel some knowledge of these European countries. Hence, Europe has received a large share of the space avail-

able.

To the newspaper reader who tries to follow the titanic struggle of a world at war, and who becomes lost in the maze of journalistic speculation, this work attempts to clarify the situation by shedding some light on foreign governments and on international relations. Essential facts are given in a truthful and unbiased manner. The world is viewed as a whole, with due respect to values.

The Maps Complete and Different

A word about the maps. Two things are required of an Atlas: (1) It must be accurate; and (2) it must be up-to-date. The excellent series of maps, compiled by C. S. Hammond & Co., will be found to meet this test in a most adequate manner. A new feature—and, it is felt, a helpful one—has been introduced in the descriptive matter entitled "What the Maps Tell Us." Here the author assumes the rôle of guide. The maps give up their secrets and their message. They become, as it were, endowed with an individuality, and the character of each is laid bare.

The motorist will be specially interested in the main automobile routes marked on each of the State maps. This is an innovation in an Atlas, and one that should find extensive favour.

Maps of the War Zones

The special maps of the war zones are placed at the beginning, for at the present time these are of first importance.

The movements of armies can be followed closely and intelligently by the aid of these clear maps; while by means of the "Index of the Western Front" any place can be instantly located. The pronunciation of many of the geographical names is a stumbling-block which will be overcome by reference to the "Pronunciation of War Names." There will be few American families that will have no personal interest in the detailed maps of war-torn Europe, and these particular pages will, alas, be scanned by many a moistened eye.

A New Country Mapped

As a result of the world war a new country has been cre-Carved out of Arabia is the Kingdom of Hejaz. It lies along the western shore of the Red Sea. Though this new country was formed only a few months ago, a map showing its extent and importance in the Moslem world is included in this book.

Discoveries by the Discoverers

The traveller is at once the pioneer and the sustainer of geography; he both blazes the way and gives a seasoned survey of later developments. We shall meet some of the greatest of these travellers at close range, and they shall tell us in their own words what they have seen and what they have done. What man can read of the finding of Living-stone in Africa, of Peary's doggedness in the Arctic wastes, of Scott's heroic death in the hour of victory, or of Sir Douglas Mawson's tragic journey in the regions of the eternal blizzard, without his blood coursing more quickly through his veins? Men like these form the vanguard of modern geography. They observe and record; the world assimilates and profits. We introduce them here to give life and vigour to a subject too often treated as lifeless.

The Automobile Tours of the World

The needs of the serious reader and of the man of business have been kept foremost in mind; but the requirements of the tourist—especially of one who is planning a vacation abroad or an automobile tour in this broad land of ours-have not gone unheeded. Not only will the outline of some popular European tours be welcomed, but the prospective traveller will doubly enjoy the various extracts from books

of travel which give an added interest to this publication.
In another place we mention the authorities to which we have been indebted in the preparation of this work. In order to secure accuracy, reference has been made to all the best available sources, many of them official. As this is a book for the general public and not for the specialist, the language has been made as readable as the subject will permit; but while the book is intended to meet a popular demand, the treatment is in no way superficial. That which is vital to a correct understanding of a country has in every instance been retained and emphasized. Non-essentials have given place to essentials; dead matter has made way for

Ignorance of foreign lands—and of our own, too—is not merely inexcusable but is little short of a calainity. If this book can cast a ray of light on some strange or obscure pat if it can be of personal service in a time of pressing need,

purpose will not have been unfulfilled.

C. O. SYLVESTER MAWSON.

GARDEN CITY, N. Y., September, 1917.

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ways have been constructed across the Appalachians the effect of the ridges is still apparent, for transport is only easy where the valleys of the Mohawk and Hudson rivers form a natural road; hence, at the seaward end of this road has developed New York, by far the greatest port of the continent.¹

To illustrate the effect of configuration on the industries of a people let us take a glance at Norway. We see that the country is a vast, rocky table-land cut into by innumerable fiords, and that a large part is absolutely barren. A line of small rocky islands protects the inshore from the storms of the North Sea, and within which the water is nearly always calm. On account of the barrenness of the soil, we look to the mountains and the coast for some indication of the leading products and industries. Nor are we disappointed, for lumber and fish are the chief resources of Norway. The abundance of lumber has given rise to various wood industries, from shipbuilding to matches, while the fisheries are very extensive.

CLIMATE

IMPORTANCE OF CLIMATE.—Let us first distinguish between weather and climate. By weather we mean the amount of heat, moisture, and wind in a particular place at a particular time. Climate shows the average atmospheric conditions, especially in regard to their effect upon animal and vegetable life. Weather deals with special instances; climate shows the general condition, and is the sum and average of weather.

In regard to the productions and communications of a country, its climate is of more importance than its coast-line or its relative elevation. Methods of cultivation in temperate climates differ widely from those in hot or cold regions. The commercial industry in harbours that are frozen for several months in the year differs greatly from that of harbours that are always accessible. The social life also in mild winter climates is different from the social life in northern cities.

CAUSES AFFECTING CLIMATE.—The principal causes which affect climate are: (1) latitude; (2) altitude; (3) nearness to the sea; (4) direction of prevailing winds; (5) direction of mountain ranges; (6) slope of the country; and (7) nature of the soil.

- (1) Latitude.—The temperature of a place varies with its distance from the equator. Within the tropics the sun's rays are, at one place or another, vertical at noon; therefore a greater number of rays fall upon a square foot of ground than in those parts of the world where the rays are sloping.
- (2) ALTITUDE.—The temperature decreases the higher we rise, the thermometer falling one degree for every 333 feet of rise above the sea-level. Those who live on mountains or elevated plains within the tropics enjoy temperate climates. Quito, in South America, although practically on the equator, has a mild and spring-like climate due to its elevation of 9,348 feet. In India, during the hot season, people may escape the intense heat of the plains by going to some hill-station, such as Simla or Darjeeling in the Himalayas.
- (3) Nearness to the Sea.—The sea becomes heated more slowly than the land, but it takes in more heat and retains it longer. Hence the effect of the sea is to temper the climate, rendering it milder in winter and cooler in summer. Greater extremes of temperature and less rainfall will be experienced in the heart of a continent than near the sea. For example, the climate of England is much milder than that of parts of

1J. F. Unstead and E. G. Taylor, "General and Regional Geography" (1916).

Russia in the same latitude, while the rainfall of Russia is much less. In North America, owing to its size and the consequent distance of its interior from the sea, the climate ranges between great heat and great cold.

- (4) DIRECTION OF PREVAILING WINDS.—Winds coming from warm regions raise the temperature of the atmosphere. Thus the sirocco, which blows from the Libyan Desert, makes the air in Italy extremely hot for the time being. The prevailing southwest winds bring warmth and moisture from the Gulf Stream to Great Britain, whereas the east wind blowing over the cold plains of Russia reaches the British Isles as a cold, dry wind. The southwest monsoons, which blow from May to September, modify the Indian climate to a considerable degree.
- (5) DIRECTION OF MOUNTAIN RANGES.—Mountains act as a barrier against the winds. For instance, the Himalayas protect India from the cold winds of northern Asia. If the Carpathians were removed from the northeast of the Hungarian Plain, that plain would be swept by cold northeast winds in the winter and would not be so fertile. Mountain ranges also condense the moisture in the air; and, when the prevailing winds are from the ocean, cause an abundant rainfall. Thus the Rocky Mountains arrest the clouds coming from the Pacific, and compel them to part with their moisture. The damp side of a mountain range is generally well wooded, while on its dry side there is only sufficient moisture for grass.
- (6) SLOPE OF THE COUNTRY.—A country that slopes away from the rays of the sun will not be so fertile as one that slopes toward them. In the northern hemisphere, the most fertile lands slope to the south; in the southern hemisphere, to the north. Planters of fruit trees are well aware of this fact. In the United States grapes and other fruits are grown in a southern aspect, while in New Zealand they are grown in a northern aspect.
- (7) NATURE OF THE SOIL.—If a soil be hard and sandy, it will retain much heat in the day and give it out rapidly at night. Thus, it is the porous character of the sand that causes both the intensely cold nights and hot days in desert regions. If a soil be clayey, and particularly if it be well covered with vegetation, it will hold a great deal of water and will part with the heat more slowly. For this reason seeds may be sown in clayey soils later in the year than in sandy soils. Nor is a forest region subject to sudden floods. The cutting down of the forests on the western slopes of the Alps has resulted in very sudden and dangerous floodings of the Rhone.

Maritime and Continental Climates.—The climate of a country is described as maritime or continental according to the proximity to the sea. A maritime or oceanic climate is distinguished by mildness and moisture. A continental climate is marked by dryness, with extreme cold in winter and intense heat in summer. Such a climate may be affected, as in Ontario, by the proximity of lakes.

Atmospheric Pressure.—Like all other forms of matter, air has weight and is subject to the law of gravitation. It is obvious, therefore, that the air must exert a certain amount of pressure on every body which it touches. The pressure of the air at sea-level is 15 pounds to each square inch. Air is also very elastic; hence the layers of air at the surface of the earth are denser and more compressed than those above them. It follows that the density and pressure diminish rapidly as we ascend.

THE BAROMETER.—The barometer is the instrument with which we measure atmospheric weight and pressure. The mercury in the tube is balanced by the weight of the air out-

side. If the air is heavy, then the mercury rises; if light, it falls. Cold, dry air is the heaviest; warm, dry air comes next; and warm, moist air is the lightest of all.

The barometer is also used to measure altitude. At sealevel the barometer usually stands at 30 inches. For every 1,000 feet we ascend, the barometer falls one inch; thus if we go up 10,000 feet the barometer will stand at only 20 inches.

By carefully watching the readings of the barometer, it is found that the pressure varies according to the time of day. This is especially the case in the tropics, where these diurnal variations are so regular that a barometer might be made to serve as a clock. It is also found that the height of the mercury varies with the seasons. In warm climates the pressure gradually diminishes from winter to summer, although the range is very small. In summer, therefore, the pressure is less than in winter in the two hemispheres owing to the greater evaporation.

Isobars.—Isobars (Greek isos, equal; baros, weight) are lines drawn on the map connecting all places of equal pressure. The daily weather charts, upon which such lines are shown, are issued by the Weather Bureau at Washington and by the meteorological office in London and elsewhere, based on information received by telegraph from various stations. It is from such information that daily forecasts of the weather can be issued with considerable accuracy.

Isotherms.—Isotherms (Greek isos, equal; thermé, heat), or isothermal lines, are lines drawn upon a map or chart connecting places of the same temperature. These lines will be found to vary from month to month over the two hemispheres, or over local areas, during summer and winter. If it were not for the various causes which affect climate, the isothermal lines would coincide with the parallels of latitude.

The mean daily temperature is the average of 24 hourly observations of the thermometer; and the average of the 365 mean daily temperatures, taken in a year, gives the mean annual temperature for that year. But although places may have the same mean annual temperature, they may have very different climates. London and Vienna have nearly the same mean annual temperature, yet London has a mean winter temperature of 37° and a mean summer temperature of 64°; while Vienna has a mean winter temperature of 29°, and a mean summer temperature of 70°. Thus the climate of Vienna is more extreme and continental than that of London, which enjoys a milder or maritime climate, although both cities receive in the year almost exactly the same amount of heat from the sun.

WINDS.—Winds are motions of the atmosphere caused by differences in its temperature and density. When the air is heated, it expands and becomes lighter. Its equilibrium is destroyed, and as the heated air rises the colder surrounding air rushes in to take its place.

The earth is at all seasons completely surrounded by two belts of high atmospheric pressure, one lying in about latitude 35° N., the other in about latitude 30° S. On the equatorial sides of these belts pressure diminishes to a minimum near the equator, and on the polar sides a similar diminution occurs, extending to very high latitudes, if not to the poles. The circulation arising from this distribution of pressure may be summarized as follows:

 The position of all these belts changes with the season; but the range of movement is comparatively small, and the extreme positions are reached from one to two months after the solstices.¹

KINDS OF WINDS .- Winds are described as constant, periodic, or variable. They also receive names in accordance with their direction, strength, and temperature. Strong winds are called gales, storms, hurricanes, cyclones, tornadoes, etc., according to their velocity. Strong winds have both a rotary and an onward motion, hence all storms are cyclonic in character. In the northern hemisphere, the wind in such storms rotates in the contrary direction to that of the hands of a clock, but travels forward in a clockwise direction. In the southern hemisphere these motions are reversed, the air in the storm rotating with the hands of a clock, but advancing in the opposite direction. In the northern hemisphere if we stand with our back to the wind the centre of the storm is on the left hand; in the southern hemisphere the opposite is the case. Cyclonic storms are the most violent in the West Indies, the Indian Ocean, and the China Sea. They occur most frequently at the same season of the year-from July to October in the northern hemisphere, and from January to May in the southern hemisphere. These storms are usually accompanied by a heavy fall of rain.

TRADE WINDS .- The most important of the constant winds are the northeast and southeast trade winds, or "trades," so called from their use in oversea trade. The air in the tropics, being intensely heated, rises and flows toward the north and south as an upper current; while the cold air flows in toward the equator to take its place. If the earth were at rest, and its surface either wholly land or wholly water, there would be only two sets of winds-a north and a south toward the equator on the surface, and return winds in the upper regions toward the poles. But the earth rotates from west to east, places at the equator moving at the rate of 1,000 miles an hour; while as we go north or south the circumference of the earth becomes less and less, and the velocity of rotation diminishes. Thus air moving toward the equator travels more slowly than those parts of the earth over which it is passing, and appears to come from the northeast or southeast instead of from due north or due south.

For a space of about 30° on either side of the equator the trade winds blow almost due northeast and southeast, but as they approach the equator their course becomes nearly east because of the great friction of the air against the earth's surface.

In the Atlantic the N. E. trade extends from lat. 9° N. to 30° N.; in the Pacific from 9° N. to 26° N. The S. E. trade varies from 4° N. to 22° S. in the Atlantic, and from 4° N. to 23° S. in the Pacific; but the limits change with the season, shifting a little with the advance and retreat of the sun.

The current of hot air rising from the tropics forms in the upper regions of the atmosphere two counter currents flowing toward the poles. As these winds blow in an opposite direction to that of the trade winds, they are called the *antitrades*. After leaving the tropics these two great contrary currents of air become chilled and heavier and begin to descend, reaching the earth's surface in the temperate zones at about 30° N. and 30° S. latitude.

It is interesting to notice the effects of these regular winds on trade-routes, e. g., the clipper route from London to Melbourne or from Liverpool to Bombay. The route is the same

¹H. R. Mill, "The International Geography" (1916).

for both places as far as the Tropic of Capricorn, and the two main objects of the skipper are to get the full use of the N. E. trade-winds blowing with him north of the equator, and to avoid the full strength of the S. E. trade-winds blowing against him south of the equator. With this double object in view, he hugs the European coast so as to make the Canary Islands, just as south of "the line" he hugs the American coast as far as the Tropic of Capricorn. There the two routes separate. The Melbourne-bound boat keeps on southward till she is from 300 to 400 miles south of the latitude of Melbourne before she turns due east, for Melbourne itself is north of the Forties, and thus she will get the full advantage of the Brave West Winds. The route of the Bombay boat varies with the season. If it is the season of the S. W. monsoons, i. e., April to October, she hugs the African coast, and makes a straight course up the Mozambique Channel; but if it is the season of the N. E. trades, i. e., October to April, she drops southward from the Cape into the Forties, and then keeps on from 2,000 to 3,000 miles eastward before she turns northward. And even then, after passing the Tropic of Capricorn, she holds eastward again, so that she approaches Bombay from the southeast.

THE DOLDRUMS.—As the two trades meet at or near the equator, it follows that if both are blowing with the same force they must neutralize each other and produce a calm. This zone of calms is known to sailors as the doldrums, and varies in breadth from 150 miles to 500 miles. This central calm belt is generally found between 3° and 9° N. lat. reason why it is found north of the equator is this: The oceans in the southern hemisphere being much broader than those in the northern, the southeast trades constitute a larger body of wind than the northeast trades and push back the latter. The zone of calms is continually changing its position, following the sun northward in summer and southward in winter. It is subject to heavy and constant rains and violent thunder-storms. When either of the trades is stronger than the other, light breezes blow usually from the east; hence the zone is also called the zone of variable winds.

Monsoons.—The chief periodic winds are the monsoons (Arabic mausim, a season), which are characteristic of the Indian Ocean. During our summer, the air over the vast plateau in southern Asia becomes greatly heated and rarefied. The ordinary northeast trades are in consequence deflected from their course and completely turned round, thus becoming a southwest monsoon. The southwest monsoon (wet monsoon) blows from the end of April to the middle of October; the northeast monsoon (dry monsoon) blows from the middle of October to April, that is when the sun is south of the equator. The "breaking of the monsoon," when one monsoon changes into the other, is usually accompanied by torrential rains and violent storms.

Horse Latitudes.—The belts of high atmospheric pressure in 30° to 35° on either side of the equator are commonly known as the horse latitudes. That part of the northern belt which is over the Atlantic Ocean is the one commonly referred to. The horse latitudes are notorious for their baffling winds and tedious calms. They present a marked contrast to the equatorial belt in the dryness and the freshness of the air and the light rainfall.

Westerly Winds.—The anti-trades north of 30° N. lat. and south of 30° S. lat. are known as the *Prevailing Westerlies* or *Westerly Winds*. In the northern hemisphere, the prevalent wind is the warm southwest; in the southern hemisphere, the warm northwest. The Westerlies exist throughout the greater part of the temperate zones, and are the ones with which Europeans are most familiar. These winds south of

1L. W. Lyde, " Man on the Earth."

the equator are known to all readers of sea stories as the Brave West Winds; on account of their being most prevalent in 40° to 49° S. lat., they are described as blowing in the Roaring Forties.

Hot and Cold Winds.—Many variable winds have special local names. Thus the hot, parching wind which blows from the African deserts, passing over southern Italy, is called the sirocco; the same wind in Turkey is called the samiel. A similar wind in Spain is called the solano; in Switzerland it is known as the foehn. In Egypt the hot southwesterly wind from the Sahara is called khamsin (an Arabic word meaning "fifty"), so called because it blows for about fifty days from April to June. In Syria and Arabia, a similar hot, violent, dust-laden wind is called simoom (from an Arabic word meaning "to poison"). In the south of France a cold, dry wind from the Alps is called the mistral. There are many other names for local winds.

DISTRIBUTION OF LIFE

EVOLUTION.—The mystery of life is one of the great unsolved puzzles of the universe, and remains a standing challenge to the biologist, the chemist, and every educated man. Science, however, is able to explain in great measure life's unfoldment.

All vegetable and animal organisms of the present day have been slowly evolved from those of former ages. Before modern science had sufficiently lifted the veil that shrouded the past it was commonly thought that the history of the earth was a succession of "terrible events and revolutions," and that a complete and instantaneous destruction of a flora and fauna took place, followed by a sudden appearance of new life forms as if at the bidding of a magician.

Such beliefs were rudely shaken by Darwin and Wallace, who advanced the theory that the various types of animals and plants have developed by descent from former types. This theory of evolution, which involves also the descent of man from some lower ape-like animal, was supported from the first by Huxley in England and Haeckel in Germany, and is now generally accepted by scientists. Men now see that instead of undermining religion, the idea of evolution uplifts creation, and makes it not an unnatural happening in the dim past but a divine activity that is continuous throughout all time.

Adaptation to Environment.—Every organism that survives does so by adapting itself to its situation. The relation of every living thing to its environment concerns both the biologist and the geographer. Ordinarily speaking, environment applies only to immediate surroundings, but in a strict sense it includes everything that may in any manner affect the organism—light and heat, alternations of day and night, and of summer and winter, and the like—to all of these, as well as to more immediate influences, the organism is sensitive. Whatever tends to destroy the harmony between any life form and its environment tends also to disturb or destroy life. This is a fundamental law of nature. Indeed, Spencer has defined life itself as "the continuous adjustment of internal relations to external relations."

External conditions are not constant. Besides the daily and seasonal changes to which an organism must adapt itself, more violent changes may take place in the history of a

"Principles of Biology" (1881).

¹Cuvier, "Discours aur les Révolutions du Globe,"

²FLORA, the plants collectively of a particular region or epoch.

^{*}FLORA, the plants collectively of a particular region or epoch.
FAUNA, collectively, the animals peculiar to a region or epoch.

species. For instance, a plain may be upheaved and become a plateau, or a mountain range may be submerged till it becomes a line of small islands, in which case corresponding changes of structure must be undergone to meet the altered conditions. Some animals will migrate while the change is taking place. Those that remain and are not sufficiently plastic to adjust themselves to the new environment must surrender and die. Fossil remains make it clear to us that numbers of different types have met this fate. This process of adaptation is called by Darwin "Natural Selection," and by Spencer the "Survival of the Fittest."

EFFECT UPON ENVIRONMENT.—Not only does environment affect an organism, but organisms are fitted to make certain exchanges with their environment, drawing from it certain forms of energy and returning to it matter and energy in some other form. Worms, as Darwin showed, effect a continual transformation of the soil by bringing the deeper layers to the surface where they are exposed to the atmosphere, and by dragging superficial objects into the burrows; thus marked chemical changes take place, for the action of the animal on environment is that of an oxidizing agent. The whole life of an organism is an unconscious struggle to wrest the means of subsistence from the environment. Excepting man, it is doubtful whether any animal is conscious of the actual process of adaptation; but though the process be unconscious it is there nevertheless.

FACTORS IN DISTRIBUTION.—Why is it that certain forms of life prevail in one region and not in another? Why, for instance, are the marsupial animals (except the American opossums) now confined to Australasia? Why are there no amphibians on oceanic islands?. Why are some regions treeless and others grassless? Such questions as these will suggest themselves to any thinking person, and the answer must be sought among the factors which determine distribution. Plants require light, heat, and moisture; and where these elements are abundant, as in the tropics, there we find the greatest development of vegetable life. Animals are dependent on climate, food, and shelter, and like plants they are more or less restricted in their habitats. In the tropics, again, we find that animal life is most exuberant in point of size, numbers, strength, and beauty. The inhabitants of the rich and sheltered lowlands are distinct from those of the mountain slopes, and these again from those of the higher and colder elevations. In the same manner the marine animals of the shallow waters differ from those of the deeper ocean.

Other factors are the location of the original headquarters of the stock (usually uncertain), and the means of dispersal. wide distribution usually suggests unusual facilities for dispersal. Thus insects are found almost everywhere; for most can fly, or are drifted with the wind, or are borne from place to place in the form of eggs or cocoon. On a volcanic island out in the ocean mammals are rarely found, which is explained by the fact that most mammals have limited powers of swimming. The occasional presence of small rodents on such an island would usually indicate that a wreck or a drifting raft had brought them there. Changes of the earth's crust and climate also help to explain distribution. For example, Asia was undoubtedly connected at one time with America by land across Bering Strait. This fact will account for the fossil remains of the horse, bison, and mammoth in Alaska, and enables us to understand the many common features between North American and European faunas.

Bearing in mind these factors, it will a seen that the old

method of dividing animal and plant life into geographical realms is somewhat misleading; hence we will adopt a more fundamental and scientific grouping by dividing the animal and vegetable world into the following areas: the *littoral* (inhabiting the seashore), *pelagic* (inhabiting the open ocean), *abyssal* (inhabiting the depths of the ocean), *fluvial* (inhabiting rivers and other fresh water), and the *terrestrial* (inhabiting the land).

LITTORAL AREA.—The littoral area extends from high-tide mark to a depth of about 100 fathoms. It is the meeting-place of air, water, and land, and is probably the richest in life forms. It includes the majority of the seaweeds, and representatives of almost every family from the Infusorians to birds and an occasional mammal. The lower boundary of this area is known as the mud line, which Sir John Murray regards as "the great feeding ground in the ocean," and as the primary haunt from which animals migrated to the deep sea. The most valuable fishing grounds are in the relatively shallow waters on the continental shelf, or littoral plateau, of the temperate lands.

Pelagic Area.—The organisms that live in the open sea are divisible into the plankton (floating), the nekton (actively swimming), and the benthos (attached to or crawling along the bottom). The plankton is now commonly taken to include the nekton as well. Scientific investigation of these pelagic organisms dates from the British Challenger expedition (1872–1876). Ocean life that exists in the first 100 fathoms is called epiplankton, and its wealth and variety are almost inconceivable.

In the first hundred fathoms at sea the fall of temperature is gradual and slight, and forms practically no hindrance to the diurnal oscillation of the oceanic epiplankton—the alleged rise and fall of almost the entire fauna. Roughly speaking, the greatest number of animals is nearest the surface at midnight; but different species sink and rise at different times, and to or from different depths. Apart from this diurnal oscillation, unfavourable conditions at the surface send or keep the fauna down in a remarkable way: for example, in the Bay of Biscay few organisms are to be found in the first fathom in bright sunlight, but on a still, hot day the next few fathoms teem with life; yet after a few minutes' wind or rain these upper layers will be found almost deserted.

ABYSSAL AREA.—This is the home of the benthos, the flora and fauna that live on the bottom of the ocean.

The researches of the *Challenger* and analogous expeditions have made it certain that there is no depth-limit to the distribution of animal life, that there are in the great abysses representatives of most of the classes from Protozoa to fishes, and that the distribution of some types tends to be cosmopolitan in correspondence with the uniformity of the physical conditions.

As to these physical conditions, the deep-sea world is in darkness, apart from occasional "phosphorescence," for a sensitive photographic plate is not influenced below 250-500 fathoms; the temperature is about freezing point, the heat of the sun being practically lost at about 150 fathoms; the pressure is enormous, about $2\frac{1}{2}$ tons per square inch at 200 fathoms; the cold water in sinking brings down a relatively large proportion of oxygen; it is quite calm, for the effects of the greatest storms are only felt near the surface.

There are no plants, apart from the resting stages of a few doubtful algoid forms, for typical vegetable life is dependent upon light, and not even bacteria, otherwise so omnipresent, are known to occur in the great depths. The animals feed on one another and on the organic débris which sinks down from above.

¹⁴⁴ Encyclopædia Britannica', 1860 on, vol. 21, p. 724.

Modern research has yielded no result more stimulating to the imagination than the tidings of this strange, silent, cold, dark, plantless world and its numerous inhabitants.1

One of the chief barriers to the horizontal distribution of pelagic organisms is the junction of opposing currents. For example, the warm southwest Mozambique Current meets a northeast branch of the cold Antarctic Drift off Natal and forms a practically impassable barrier. Discontinuous distribution is also apparent where physical barriers have intersected a certain area. Dr. G. H. Fowler cites the following example:

The Isthmus of Panama was apparently only upraised about Miocene time, having been previously an archipelago through which a great circumequatorial current could pass; consequently the benthos of the Panama region shows marked alliance with the Caribbean, with which it was formerly continuous, but practically none with the Indo-Pacific. . . . The damming of a great circumequatorial current by the Isthmus of Panama is probably also responsible for that dislocation of currents which resulted in the present relations of the Gulf Stream and North Atlantic Drift to the Labrador Current, and cut the Atlantic Boreal fauna into two discontinuous districts.

FLUVIAL AREA.—The fresh-water faunas and floras may be distinguished as: (1) the recent migrants, e. g., the simple polyp Cordylophora which has been carried by boats up rivers and canals; (2) the survivors of the inhabitants of an ancient sea, e. g., many of the molluscs of Lake Tanganyika in central Africa; (3) the cosmopolitan forms which include some protozoa, numerous small crustaceans, hydra, fresh-water sponges, and some varieties of worms. Many of these smaller forms are readily transported on birds' feet and otherwise from one water basin to another.

TERRESTRIAL AREA.—Regarding the origin of land animals. it is presumed that organisms travelled inland from the shores of sea and river, or became able to survive the drying up of lagoons. This transition must have come about slowly and gradually. Professor H. Simroth, in his Entstehung der Landthiere, seeks to show that hard skins, cross-striped muscle, red blood, and so on, were acquired as the transition to terrestrial life was effected.

Evolution of Faunas.—The historical relations of the great faunas suggest various possibilities. According to Moseley:

The fauna of the coast has not only given origin to the terrestrial and fresh-water faunas, it has throughout all time, since life originated, given additions to the pelagic fauna in return for having received some of these pelagic forms back again, to assume a fresh littoral existence. The terrestrial fauna has returned some forms to the shores, such as certain shore-birds, seals, and the polar bear; and some of them, such as the whales and a small oceanic insect, Halobates, have returned thence to pelagic life.

The deep-sea fauna has probably been formed almost

entirely from the littoral, not in the most remote antiquity, but only after food, derived from the débris of the littoral and the terrestrial faunas and floras, became abundant in

deep water.

It was in the littoral region that all the primary branches of the zoölogical family tree were formed; all terrestrial and deep-sea forms have passed through a littoral phase, and amongst the representatives of the littoral fauna the recapitulative history in the form of series of larval conditions is most completely retained.

According to Agassiz, Simroth, and others, a littoral fauna was the original one, whence have been derived, on the one hand, the pelagic and abyssal faunas, and, on the other hand, the fresh-water and terrestrial faunas. Thus, when ancient philosophy maintained, with Thales, that everything had issued from the sea, it voiced an opinion which modern science regards as an accepted fact.

I. VEGETATION

The chief vegetation types are the forest, the grassland, and the desert, corresponding more or less to the wet, scantily watered, and arid regions of the earth.

Forests.—The forests in the equatorial belt and in regions where the summer rainfall exceeds sixty inches, consist of tall trees, together with a dense profusion of plants forming a continuous carpet. Stanley gives a graphic description of "The Great Central African Forest," with its tangled mass of vegetation, the crowding and strangling to fill up every gap, the riot of life, death, and disease.

Imagine the whole of France and the Iberian peninsula closely packed with trees varying from 20 to 180 feet high, whose crowns of foliage interlace and prevent any view of sky and sun, and each tree from a few inches to four feet in diameter. Then from tree to tree run cables from two inches to fifteen inches in diameter, up and down in loops and festoons and W's and badly-formed M's; fold them round the trees in great tight coils, until they have run up the entire height like endless anacondas; let them flower and leaf luxuriantly, and mix up above with the foliage of the trees to hide the sun, then from the highest branches let fall the ends of the cables reaching near to the ground by hundreds with frayed extremities, for these represent the air roots of the epiphytes¹; let slender cords hang down also in tassels with open threadwork at the ends. Work others through and through as confusedly as possible, and pendent from branch to branch—with absolute disregard of material, and at every horizontal branch plant cabbage-like lichens of the largest kind, and broad spear-leaved plants—these would represent the elephant-eared plant—and orchids and clusters of vegetable marvels, and a drapery of delicate ferns which abound. Now cover tree, branch, twig, and creeper with a thick moss like a green fur.

To complete the mental picture of this ruthless forest, the ground should be strewn thickly with half-formed humus of rotting twigs, leaves, branches; every few yards there should be a prostrate giant, a reeking compost of rotten fibres, and departed generations of insects, and colonies of ants, half veiled with masses of vines and shrouded by the leafage of a multitude of baby saplings, lengthy briars and calamus in many fathom lengths, and every mile or so there should be muddy streams, stagnant creeks, and shallow pools, green with duckweed, leaves of lotus and lilies, and a greasy green scum composed of millions of finite growths.2

Temperate broad-leaved forests exist where the yearly rainfall exceeds twenty-five inches, and consist of such deciduous trees (i. e., those shedding their leaves annually) as the beech, oak, and maple. The undergrowth is rarely dense, and, unlike the tropical forests, there is a lack of bright flowers. Coniferous or cone-bearing forests are found in regions where the winters are severe and the rainfall scanty. The "needles" of such trees as pines, firs, and hemlocks replace the broad leaves of the deciduous forests, for this needle-like form checks transpiration and is better suited to drier conditions. These forests are also to be found in regions favourable to deciduous trees, as on the Pacific coast of North America, where the trees often attain a gigantic

¹Air plants.

²H. M. Stanley, "In Darkest Africa" (1890).

size. Conifers are also found on the mountains of Central Europe and on the sand barrens of the coastal plain of the United States.

Grasslands and Savannas.—In the regions bordering the equatorial belt, as in the campos of Brazil and the subtropical plains of Africa, grasses and sedges predominate, the prolonged summer drought preventing the growth of forests. Varieties of palm, eucalyptus, acacia, and baobab are found, but only singly or in small groups. Temperate grasslands, known as prairies in North America, as pampas south of the Amazon, as llanos on the Orinoco, and as steppes in southern Russia, occur in regions with hot summers and a moderate rainfall. Trees are absent or scattered. One of the aims of civilization is the extension and intensive culture of grassy vegetations, which include our cereals.

In temperate latitudes, one sixth of the total number of flowering plants are annuals; in the tropics, about one twentieth; and in the polar regions, about one thirtieth.

Tundras.—The tundras, or treeless plains of the northern polar regions, mark the limit of tree vegetation, and are covered with a dense mass of mosses and lichens. The subsoil is frozen to a depth of many feet, and only the surface thaws during the short summers. The tundra passes imperceptibly into the moor, bog, and heath of more southern latitudes.

The monotony of tundra scenery has been noted by many travellers, but the tundra in several regions is not devoid of charm. Seebohm describes it as a veritable paradise in summer, and draws the following picture:

In exposed situations, especially in the higher latitudes, the tundra does really merit its American name of Barren Ground, being little else than gravel beds interspersed with bare patches of peat or clay, and with scarcely a rush or a sedge to break the monotony. In Siberia, at least, this is very exceptional. By far the greater part of the tundra, both east and west of the Ural Mountains, is a gently undulating plain, full of lakes, rivers, swamps, and bogs. The lakes are diversified with patches of green water plants, amongst which ducks and swans float and dive; the little rivers flow between banks of rush and sedge; the swamps are masses of tall rushes and sedges of various species, where phalaropes¹ and ruffs breed, and the bogs are brilliant with the white fluffy seeds of the cotton-grass. The groundwork of all this variegated scenery is more beautiful and varied still-lichens and moss of almost every conceivable colour, from the cream-coloured reindeer-moss to the scarletcupped trumpet-moss, interspersed with a brilliant alpine flora, gentians, anemones, saxifrages, and hundreds of plants, each a picture in itself. . . . In the sheltered valleys and deep water-courses a few stunted birches, and sometimes large patches of willow scrub, survive the long severe winter, and serve as cover for willow-grouse or ptarmigan.2

ICE DESERTS.—The ice deserts of polar and mountain regions are virtually devoid of vegetable life, except such low forms as the microscopic alga (Spharella nivalis) that produces "red snow."

Mountain Vegetation.—Mountains are characterized by a succession of different types according as the altitude increases. In equatorial regions a complete series of vegetations occurs, corresponding to the same variety of climates. These vertical belts of vegetation in the tropics are:—

First Zone (from sea-level to 1,900 feet). Belt of palms, breadfruit, and bamboos.

Second Zone (1,900 to 3,800 feet). Belt of tree-ferns.

Third Zone (3,800 to 5,700 feet). Belt of laurels, myrtles, and cacti.

Fourth Zone (5,700 to 7,500 feet). Belt of evergreens and the vine.

Fifth Zone (7,500 to 9,500 feet). Belt of cereals, with orchard and deciduous forest trees.

Sixth Zone (9,500 to 11,400 feet). Belt of firs and pines. Seventh Zone (11,400 to 13,300 feet). Belt of larches, alders, and willows; above 13,300 feet, saxifrages and lichens only are found.

DESERTS.—Deserts are barren tracts chiefly found in regions with practically no rainfall. Vegetation is scanty, and where shifting sand dunes abound may be absent altogether. Various species of cactus are typical of desert plant life, their thick fleshy stems retaining stores of water. On the fringe of the desert, low bushes and dwarf trees occur, with occasional stretches of grassland. Such a region is called "scrub," as in the United States, or "bush" as in Australia and South Africa.

PELAGIC PLANTS.—The sea possesses a fecundity so remarkable that as Columbus said, "the tongue and the hand do not suffice to describe it." In the open sea, vegetation is scanty below 200 fathoms, for beyond this depth sufficient light cannot penetrate to stimulate growth. There are an immense number of minute floating plants consisting chiefly of diatoms and blue-green algæ (Schizophyceæ). These plants form the basal food supply of all pelagic animals.

The immense tract of comparatively still water in the North Atlantic Ocean, known as the Sargasso Sea, presents the largest of these banks of floating seaweed. Aristotle tells us that the boldest mariners were afraid to cross its boundary, and this historic tract well-nigh hindered the discovery of America. The vessels of Columbus were so impeded by the seaweed that the sailors became alarmed for their safety and mutinously demanded to be taken back to their native country.

II. ANIMALS

Relation of Animal and Plant Life.—Since vegetation forms the basis of all animal life, the number of plant-feeders is determined by the abundance or scarcity of plants, while the number of flesh-feeders is determined by the number of plant-feeders. Insects, molluscs, worms, and other invertebrates which feed on plants, form a preponderating portion of the fauna of every region, and are in turn the chief food of many birds, reptiles, and small mammals. The grazing animals, though of prime importance to man, are relatively of numerical insignificance. So also are their carnivorous enemies.

Movements of Animals.—The quest for food is the chief reason for movement in the animal world; hence in many animals movement is the dominant note. Nor is food the sole cause of this phenomenon. Self-protection also plays its part in influencing movement. Besides these movements that conduce to the welfare of the individual, there is another class of motions that relates to racial well-being, and that has for its object the colonizing of new regions. Many animals, such as barnacles, anemones, and corals, are fixed and only perform small vibrations within a restricted radius. Others, as the snails and bivalves, are sedentary and cover little ground in a lifetime. Yet all these fixed animals, and most of the sedentary ones, have an active juvenile stage. Were it not for this early activity, the habitat of parents and offspring would soon be stripped of its food supply.

Seasonal Changes.—Periodic changes in animal life occur

¹Small shore birds resembling sandpipers. ²Scottish Geographical Magazine, 1X. (1893).

in certain areas, though these changes are less marked than in the vegetable kingdom. The seasonal interruption of the food supply, as well as changes of temperature and moisture, cause corresponding changes in the active life of many invertebrates. Some pass the season in a state of suspended animation, others in the form of eggs or pupæ, while the animals that feed upon them are driven either to lie dormant or to migrate. For example, many birds migrate northward in the spring in quest of food and nesting sites, returning in the autumn to warmer climes where life is easier to sustain.

At other times it is violence that compels legions of animals to quit the place where they had established themselves. In the countries where man does not decimate them, they swarm in such abundance, and are so crowded together, that one can scarcely understand how they exist; their numbers are alarming. The pictures that Livingstone has drawn of the exuberance of game in wild districts of central Africa, and in particular on the banks of the Zambezi, suffice to give us an idea of the fecundity of nature. But this very fecundity is fatal to the weak tribes; the stronger ones, getting the upper hand, drive them away or annihilate them. They have no choice left, and thus forced migrations arise.

They have no choice left, and thus forced migrations arise.

When animals perform their journeys annually we observe an amount of order and foresight which are not seen in erratic migrations. During these latter the whole colony sometimes expires, overcome by the elements or hunger; not a single individual ever sees again the country which the tribe quitted in innumerable columns. In the former, on the contrary, instructed by an experience from which all profit, the journey is performed with a degree of order that fills us with astonishment.

ment.

Animal Life of the Forests.—The tropical forests teem with animal life. An exuberant variety of insects, birds of brilliant plumage, apes, monkeys, tree-frogs, tree-snakes, and other tree-dwellers abound. Owing to the density of the undergrowth the majority of the forest denizens can either climb or fly. The elephant, with its huge bulk, is alone enabled to crush its way through the tangled growth. In the less dense deciduous and coniferous forests, the number of ground-dwelling animals increases, and there are many animals of the type of the wild boar and the wolf. The coniferous forests are the home of the most valuable fur-bearing animals.

Animal Life of Grasslands and Scrub Lands.—These are the regions of fleet-footed grazing animals, such as the deer, antelope, and wild varieties of the horse, ass, camel, and ox. Here too are found the dependent beasts of prey—lions, tigers, jackals, and the like. Swift-running flightless birds, as the ostrich, emu, rhea, and cassowary, also are found. Rodents, too, are numerous.

Animal Life of the Deserts.—Desert life is essentially restricted. Insects, rodents, reptiles, and a few birds—all of them characterized by a protective colouring of yellowish-brown, make up the animal life of the desert.

The fact that almost all the desert animals agree in colouring with their surroundings explains why the traveller who is not an experienced observer often sees, at first at least, but little of the animal life. Moreover, the desert seems far poorer than it is, since it is not till dusk that most of its tenants leave their places of rest and concealment and begin to be lively.²

An occasional larger animal from the outer belt of scrub or grassland may be encountered passing from oasis to oasis. The camel, with its broad padded hoof and its capacity for storing water, is admirably fitted by nature for traversing the desert wastes. 2.5.

Animal Life of the Tundras.—The reindeer, elk, polar bear, Arctic fox, and numerous fur-bearing animals are peculiar to these cold regions. The protective colouring devices of the Arctic fauna are remarkable. The Arctic fox, for example, has a brownish colouring in summer that harmonizes with the moss and lichen, but in winter its coat becomes as white as the surrounding snow. In the brief summer, flocks of birds migrate from southern latitudes to feed on the swarms of insects bred in the thaw-formed bogs and pools of the tundras.

It is only by digging that one can know the tundra for what it is: an immeasurable and unchangeable ice-vault which has endured, and will continue to endure, for hundreds of thousands of years. That it has thus endured is proved indisputably by the remains of prehistoric animals embedded in it, and thus preserved for us. In 1807 Adams dug from the ice of the tundras the giant mammoth, with whose flesh the dogs of the Yakuts sated their hunger, although it must have died many thousands of years before, for the race became extinct in the incalculably distant past.

The year is well advanced before the tundra begins to be visibly peopled. Of the species which never leave it one sees very little in winter. The fish which ascend its rivers from the sea are concealed by the ice; the mammals and birds which winter in it are hidden by the snow, under which they live, or whose colour they wear. Not until the snow begins to melt on the southern slopes does the animal life begin to stir. Hesitatingly the summer visitors make their appearance. The wolf follows the wild reindeer, the army of summer birds follows the drifting ice blocks on the streams. Some of the birds remain still undecided in the regions to the south, behave as if they would breed there, then suddenly disappear from their resting-place by the way, fly hastily to the tundra, begin to build directly on their arrival, lay their eggs, and brood eagerly, as though they wished to make up for the time gained by their relatives in the South.¹

Multitudes of sea fowl have their home in the polar regions, for the lack of vegetation makes the ocean the only source of food.

SEA ANIMALS AND THEIR DISTRIBUTION.—The sea is tenanted by a profusion of living creatures. Conditions are favourable to fecundity. There is an abundance of room, of sunshine, and of food; hence, the struggle for existence is relatively mild. The pelagic or sea animals present a great variety of type, from the minute *Noctiluca*, which in their myriads create phosphorescent furrows in the wake of ships, to the giant whales.

If we divide the sea into three portions by lines drawn through latitude 40 north and south of the equator, we have a belt of warm ocean water in the Atlantic and Pacific oceans, while north and south of this lie the temperate and the arctic caps of water. Speaking generally, the fauna of the warm belt is distinctive and fairly uniform in all parts of the world, whilst that of the two caps is again uniform, but quite different from that of the equatorial zone. Many of the fish, crustacea, and the minute animals of the cold northern seas are met with again on the coast of Patagonia and of South Africa. The arctic right whale has its counterpart in the southern right whale of the antarctic. The movements of all these boreal and hyperboreal animals follow the tracks of cold water: for example, the arctic whales follow the cold Labrador current that sets down the Newfoundland coast.

Each fauna appears to die out, however, if transferred to sea-water of a different density of temperature.

¹F. A. Pouchet, "The Universe" (1906).

A. E. Brehm, "From North Pole to Equator" (1896).

A. E. Brehm, "From North Pole to Equator" (1896).

The vast majority of marine animals have no power of altering their constitution to suit water of a new degree of salinity. Their movements are controlled so as to keep them in the stream or drift of that kind of water to which they are, as it were, attuned, and a very slight change in the water is fatal either to themselves or to their offspring.¹

Barriers to Distribution.—The chief barriers to the dispersal of land animals are: (1) impassable stretches of water, e. g., the Palk Strait has formed an effectual barrier to the passage of the tiger from India to Ceylon; (2) deserts, e. g., the Sahara has prevented the fusion of the mammals belonging to the north and south of that tract; (3) high mountain ranges, especially when they run in an east-and-west direction as in the Old World, e. g., the mammals of Tibet are as distinct as those of any continental island.

Man's Influence on Animal Distribution.—Man has exerted a marked influence on the distribution of animals, either by destroying them or by transporting them to localities removed from their natural home. The early emigrants to America brought their domestic animals with them, and now horses and cattle are completely naturalized in the New World. The settlers in Australia and other countries have introduced their domestic animals where they were previously unknown. The fallow deer was imported from its Mediterranean habitat into northern Europe; while the rabbit was carried to the Antipodes from Great Britain, and has flourished in such an unprecedented manner that its extermination would be hailed as a national boon. Similarly destructive have been the goats and pigs imported into a number of oceanic islands. The English sparrow, brought by man to America, is yet another instance of this prolific increase. Man also has been the involuntary agent for conveying the common rat and mouse to the New World and to every other country where they were unknown.

It is likewise quite impossible to say what part man may have played in the extermination of the large mammals that inhabited Europe about the close of the glacial period, but it seems quite probable that he may have had a considerable share in their destruction. Be this as it may, the domestication of certain mammals has undoubtedly had the effect of destroying the wild race, as is remarkably exemplified by the two existing species of camel, of neither of which do we know the original habitat. The original European wild ox—un-less, indeed, the half-wild cattle of the British parks be its direct descendants-has likewise disappeared at some unknown epoch owing to the hand of man. Although other mammals, such as the quagga (Equus quagga), Burchell's rhinoceros (Rhinoceros simus), and the blaubok (Hippotragus leucophæus) have been almost or completely exterminated by human agency in South Africa, while the American bison has been practically swept away from its native prairies, yet in all these instances there is a more or less full record of the original range of the creatures. In other cases also mammals have been utterly exterminated by human agency from countries of which they were originally inhabitants, as is exemplified by the disappearance from the British Islands of the bear, the wolf, the beaver, and the wild boar within the historic period, although they still survive in other parts of their habitat.2

III. MAN

DIVISIONS OF MANKIND.—The genus *Homo* (Man) is on the whole cosmopolitan, for man is able to adapt himself to environment in every part of the globe. In the icy Arctic regions, in the sweltering tropics, on lofty table-lands, and in countries below the level of the sea, man makes his habitation. As Dr. H. R. Mill well says:

Alone amongst the animals man, in virtue of his higher intelligence, has the power, while always under the control of his surroundings, to react upon his environment in such a way as to render its action more beneficial to himself. By cultivation and breeding he alters the character and the distribution of plants and animals, by works of draining and irrigation he modifies the natural watering of the land, by cutting canals and building dykes he changes the relative positions of land and sea even to the severance of continents. Engineering works enable him to overcome the resistance to free movement presented by vast stretches of waste land, great rivers, mountains, and the ocean itself.

Ethnologists divide mankind into four primary groups—the Ethiopic or Black, the Mongolic or Yellow, the American or Red, and the Caucasic or White. This division is partly based on colour and partly on geographical distribution.

ETHIOPIC OR BLACK.—The Ethiopic, Negro, or Black type is distinguished by deep brown or black skin; short, black, and woolly hair; sparse beard; thick, everted lips; broad, flat nose; prominent black eyes, with yellowish cornea; and flat foot. The Black type is found in tropical and subtropical regions, and is usually of primitive culture unless educated by contact with whites.

Mongolic or Yellow.—The Mongolic or Yellow type is characterized by various shades of yellow; small, concave nose; thin lips; prominent cheek bones; small, oblique black eyes; and long, coarse, and black hair, with no beard. The Mongolic type occupies the greater part of Asia, and is capable of a high culture.

American or Red.—The American or Red type is distinguished by slightly projecting, massive jaws; somewhat prominent cheek bones; large, straight, or aquiline nose; small straight black eyes; coppery skin, shading off to yellowish or brown; long, coarse, black hair, scant beard. This type is peculiar to America, and contains representatives of many stages of culture which apparently developed without contact with any other race until the close of the fifteenth century.

CAUCASIC OR WHITE.—The Caucasic or White type originated in the north temperate zone and has spread over the entire world. Huxley and others divide the Caucasic race into two types: (1) The Xanthochroi, or blond, characterized by a long head; moderately large blue or gray and straight eyes; florid skin; and long, wavy, flaxen, light brown, or red hair. (2) The Melanchroi, or dark, distinguished by a round head in the north, and long in the south; large black eyes; pale white skin; and wavy, curly, brown, or black hair. The nose of both types is large, straight, or aquiline; the cheek bones small; and features regular. The Caucasic type has attained the highest culture, and has brought all the people of the Ethiopic type and many of those of the Mongolic under their domination.

The population of the world is approximately 1,600,000;000, distributed as follows:

RV	CONTINENT	ŝ

Asia Europe Africa America	e . ca (N	orth	n ar	nd S	Sout	h)			:	446,800,000 140,000,000 196,000,000
Austra							·			16,000,000

Total 1,648,800,000

¹F. W. Gamble, "The Animal World" (1911).

²R. Lydekker, "A Geographical History of Mammals" (1896).

		BY	KA	CE		
White (Caucasic)						865,800,000
Yellow (Mongolic)						581,000,000
Black (Ethiopic)						175,000,000
Red (American)	•					27,000,000
Total						1,648,800,000

CULTURE ZONES.—The region most favourable to man's highest development is known as a culture zone. In the Old World this privileged area lies between 25° and 50° N., and within this zone have flourished all the great centres of civilization in the world's history—Egyptian, Babylonian, Assyrian, Persian, Indian, Chinese, Ægean, Hellenic, Phœnician, Etruscan, Roman, and later European. Within it also are found the homes of the highest forms of religion known to the world: Jewish, Buddhist, Christian, and Mohammedan. From it also have emanated the three great linguistic groups: Hamitic, Semitic, and Aryan. These sum up the highest proof of the theory that all living forms are the product of their environment. Opposed to these instances of high development are the savages of central and southern Africa, east Malaysia, New Guinea, Australasia, Melanesia, and Tierra del Fuego. To these may be added those races whose history is marked by changes from barbarism to civilization and back again to barbarism: Indo-Chinese, people of the Deccan, central Arabians, Tibetans, Mongolians, Siberians, and the people of the table-lands and Arctic stretches in the western hemisphere. It is noticeable that in the New World the culture zone approaches the equator more nearly than in the Old World, because of the greater height of land in that region of the western hemisphere.

Man's Position.—Darwin's closing words in "The Descent of Man" may be fitly quoted:

Man may be excused for feeling some pride at having risen, though not through his own exertions, to the very summit of the organic scale; and the fact of his having thus risen, instead of having been aboriginally placed there, may give him hope for a still higher destiny in the distant future.

. . . We must, however, acknowledge, as it seems to me, that man with all his noble qualities, with sympathy which feels for the most debased, with benevolence which extends not only to other men but to the humblest living creature, with his god-like intellect which has penetrated into the movements and constitution of the solar system—with all these exalted powers—Man still bears in his bodily frame the indelible stamp of his lowly origin.

GOVERNMENTS

There are two characteristic forms of government, the monarchical and republican or democratic.

Monarchies.—In a monarchical form of government, the ruling power is vested in a monarch whose office is generally hereditary. There are three kinds of monarchies: (1) Despotic, like those of some barbarous peoples, in which the ruler is free from all human limitations and his will is the only law; (2) Absolute or autocratic, where the people are governed by laws in which they had no share in making, as in the case of Russia previous to the revolution of 1917; (3) Limited or constitutional, in which the monarch is head of the State, with more or less administrative power, but in all matters of importance he is compelled to ask the advice and consent of representatives elected by the people. The laws are made and, in great measure, administered by the legislature, as in the United Kingdom.

REPUBLICS.—In a republican form of government, the

ruling power is in the hands of the people, who elect a president from among themselves to exercise that power, as in the United States, France, Switzerland, and Portugal. As in limited monarchies, the laws are made by elected representatives. In some respects a president is more powerful than a monarch, for he combines two kinds of power which under a hereditary monarchy are kept separate. He is the head of the State, and is also a party leader, dispensing his patronage among his own followers and framing his policy with a view to the success of his party in the next election. "Next to the controlling authority of the people themselves," said Daniel Webster, "the preservation of the government is mainly committed to those who administer it. If conducted in wisdom, it cannot but stand strong. Its genuine, original spirit is a patriotic, liberal, and generous spirit . . . a spirit of friendship, and not a spirit of hostility toward the States; a spirit careful not to exceed, and equally careful not to relinquish its just powers."

LANGUAGE

There are approximately 3,500 languages and dialects spoken in the world, but few of these are wide-spread. English is the chief commercial language, due to its predominance in the British dominions and in the United States of America. A corrupt form of the English language, arranged according to Chinese syntax, and known as pidgin English, is used as a lingua franca in parts of the Far East. In India, Hindustani is widely used in a similar manner between people of the different races. Arabic, sometimes in a corrupt form, is the chief language of commerce throughout Africa north of the equator and the Near East. Owing to the early conquests of the Spaniards and Portuguese; their languages predominate in Latin America. French is the language of diplomacy, and is usually employed by governments in international deliberations. The principal European tongues are divided approximately as follows:

LANGUAGE							PEOPLE
English .							160,000,000
German.							120,000,000
Russian.							100,000,000
French .							70,000,000
Spanish.							 55,000,000
Italian .		•.					40,000,000
Portugues	e.						30,000,000

The English language contains more than 500,000 words, of which nearly one half consists of scientific terms and of archaic, obsolescent, or obsolete words.

TRANSPORT BY LAND

Transportation is at all times a true criterion of material progress. Livingstone expressed the opinion that if civilization was ever to penetrate the dark continent of Africa it must be the result, not of the unaided missionary, but of the new trade routes. Cut off the means of transport from any place, however rich in natural resources, and stagnation will quickly follow. An illustration of this is afforded by the Great War, which caused a virtual stoppage of all sea-borne trade at Hamburg and other German ports.

PRIMITIVE METHODS.—In primitive times, as even to-day in unfrequented and inaccessible regions, we find primitive conditions. The sturdy shoulders of the mountaineer, or the head of the swarthy negro, must perforce be employed

when other methods are not available. In the development of land transportation, the first motive force is always the physical strength of man himself; the second, the strength of animals subjugated by man, (1) as beasts of burden, and (2) as beasts of draught; and, finally, the giant forces of steam and electricity obedient to man's will.

In America, at the time of its discovery by Europeans, human strength furnished the only known means of land transportation; for the natives were on the whole ignorant of the use of beasts of burden; indeed, the fauna of the continent was almost devoid of any suitable species. The Peruvians alone seem to have had, in the llama, the only available beast of burden. Mexico presents a phenomenal instance of commercial development resting almost solely on the most primitive form of land transportation. The Mexican merchants travelled about the country with a horde of porters, each carrying a load of fifty or sixty pounds, and travelling about fifteen miles a day. This lack of any natural species suitable to burden-bearing was a heavy handicap to the early races of the New World, which makes the extensive land commerce of the Mexicans a matter of amazement.

PACK ANIMALS.—The second stage in the development of land transportation is the employment of pack animals-the ox, the ass, the horse, the mule, etc.—animals which were in use in the eastern hemisphere from time immemorial, their use marking a great advance in efficiency, speed, and economy. In southern Europe, in Asia, and in all mountainous regions where roads are bad, beasts of burden are still commonly employed. The yak and mountain sheep traverse the narrow, winding paths of the Himalayas with loads on their backs. The llama bears the produce of the Andean mines down to the seaport towns. The camel, with a store of food in its hump and of water in its stomach, traverses the rough tracks of the desert for days without food or drink, covering about twenty-five miles a day. Long strings of camels journey together in a caravan, and formerly all the silks and spices of the East reached Europe in this manner. The chief caravan routes in Asia now lie beyond the railroads. In Africa the caravans journey between the railroads, the oases of the Sahara, and the Sudan.

DRAWN VEHICLES.—With the growth of commerce and civilization, drawn vehicles came into use. Most uncivilized tribes are unfamiliar with any form of vehicle, e. g., the Australian aborigines and the Melanesians. The cart was gradually evolved from the two trailing branches attached to the sides of a horse. The sledge represents the middle stage. Rollers were next placed under the framework of the sledge, and step by step wheels began to be formed, as ease of traction became better understood. The wheels at first were solid, and in appearance were something like a grindstone. The wheels of the East Indian reckla-a twowheeled vehicle drawn by oxen-are usually of this kind. Although wheeled vehicles were known in China, India, and Egypt from remote antiquity, while, as Herodotus tells us, the ancient Scythians or Tatars pitched their tents upon cumbrous wagons, each of which needed more than twenty oxen to haul it, yet, as the construction of roads did not keep pace with inventive skill, the vehicles were only of limited usefulness. Four-wheeled vehicles were known in Europe during the Bronze Age, for remains have been discovered in the tombs of Scandinavia and the lake-dwellings of Italy.

In polar regions where no vegetable food is obtainable sledges drawn by dogs are used. A team of twelve Eskimo dogs can haul nearly half a ton on a sledge for eight hours a day. The reindeer, too, is used for drawing sledges over the

tundras of northern Europe, which it crosses at a speed of about 100 miles a day. Across the South African veldt and the trackless plains of Australia and America, bullock wagons drawn by from two to forty oxen form the caravan of the trader. Dogs and sometimes sheep draw small carts on the Continent. In many places in the Far East and in South Africa the Japanese jinrikisha, drawn by one or more men, takes the place of a cab.

Power-driven Vehicles.—The third or modern stage in the development of transportation by land is characterized by the employment of new natural forces. Steam, electricity, and the internal-combustion engine have revolutionized the methods of transport, and have been the means of opening up many regions to commerce. Railroads can transport considerable quantities of merchandise at a time, hence the cost of haulage is less than by other methods of land transportation. The recent development of motor cars has led to a great increase in the use of roads for the conveyance both of passengers and of goods; while the aëroplane may prove as adaptable to the pursuits of peace as it has to those of war.

GOVERNMENT CONTROL OF RAILROADS.—European railroads are largely under government control, and this policy is an outgrowth of (1) state subsidies, (2) state construction, and (3) state guarantee of traffic monopolies. The policy of government ownership of railroads is due to various determining factors, such as military necessity in Germany, Russia, and Austria-Hungary. In France, such railroads as are not owned by the Government are held on leases by which the ownership will eventually revert to the Government. In Italy and the lesser European states, and, to a certain extent, in Spanish America, South Africa, India, Australia, and New Zealand, want of private capital and enterprise and the objection to foreign capitalization are the chief determining causes of public ownership; though in the Australasian colonies it was believed that public interests would best be served by such ownership. The only instance of a railroad owned and operated by the United States Government is the Panama Railway, purchased in 1905. This ownership, in view of its value in connection with the Panama Canal, and as a link between the Atlantic and Pacific coast ports, is of great importance to the United States. The only example of a state-owned steam railroad in the United States is a short line in North Carolina, which, however, is at present operated under lease. The Intercolonial Railway of Canada between Montreal and Halifax was built and is operated by the Dominion Government in conformity with the provisions of the British North America Act of 1867.

In the United States, Canada, Great Britain, and other countries having private railroad systems, the Government exercises the right of supervisory control, both as regards the facilities afforded and the rates charged. Such control is necessary in the interests of the general public; for railroads come under the general category of "common carriers," and are compelled by law to carry any person who can pay the fare, as well as to transport freight for the general public, without favour or hindrance.

RAPID TRANSIT IN CITIES.—The problem of rapid transit in large cities has been largely solved by means of overhead and underground railways in addition to surface cars. The first elevated railway was built in New York City in 1867, but such lines were not successfully operated until 1872, when the New York Elevated Company began running trains from Battery Park along Greenwich Street and Ninth Avenue to Thirtieth Street. In succeeding years lines were built in

Brooklyn, Chicago, and Boston; while in foreign countries elevated railways were constructed in Liverpool, Paris, and Berlin. The first underground line was laid in 1886 by the City and South London Railway, two parallel tunnels being built from 40 to 80 feet below the surface with a diameter of 10 feet 9 inches. The "Twopenny Tube" in London was a development of this plan; while to-day London has a veritable network of underground electric railways. Another form of underground railway was introduced in Budapest in 1893, which is known as the "cut-and-cover" system. Shallow tunnels are roofed with steel beams upon which the street pavement actually rests. Similar lines were built in Boston, New York, and Paris. On practically all elevated and subway railways electricity is now employed.

TRANSPORT BY WATER

Transport by water has always been the most important in the history of the world's commerce. Vast portions of the earth's surface can never be reached except by water, unless aërial navigation should in the provide a practicable alternative.

The river was the highway of trade long before roads were dreamed of. The great waterways became the first seats of population and empire. They were the link with the outer world, and were naturally the first channels of transport to be developed. Water transport has ever been cheaper than transport by land, and was one of the earliest means of international trade. Trade invariably seeks the lines of least resistance; hence the routes of ancient commerce followed the world's waterways, and were only checked or cut asunder by barriers of transport. These breaks in transportation, necessitating the transfer of commodities, determined the location of industrial centres. The greatest commercial cities, from ancient times to the present day, have invariably grown up near the junction of land and water transport. Maritime commerce along the coasts grew naturally out of the river trade; and when the art of navigation had so advanced that the passage to India around the Cape and the crossing of the Atlantic extended the horizon of mediæval enterprise, maritime transportation became the paramount agent of international commerce, and has remained so to the present time.

STEAMSHIPS.—The same natural forces that revolutionized transport on land created a new era in the progress of water transportation. Almost a century ago the first steamship made its way across the Atlantic. In 1819—the year that Queen Victoria was born—the Savannah (380 tons), equipped as a full-rigged ship and provided with a 90 horse-power horizontal engine, with side paddle wheels and boilers in the hold, crossed from Sayannah to Liverpool in twenty-five days, eighteen under steam. Pitch pine was the fuel employed. The first boat to cross the Atlantic entirely under steam was the Royal William, which made the voyage from Quebec to London in 1833. In 1838 the world was thrilled with the news that Brunel's masterpiece, the Great Western, had crossed the Atlantic from Bristol to New York in fifteen days, having succeeded in carrying fuel enough for the entire voyage. Henceforth a regular line of steamships plied across the Atlantic, and Liverpool sprang into fame as a port, taking the place of Bristol. The first iron-built ocean steamer was the Rainbow (580 tons), launched in Liverpool in 1838. Screw propulsion was regarded as impracticable until John Ericsson, who afterward built the Monitor, had put it to the test. The screw was not universally adopted on ocean liners till 1862, both paddle wheels and wooden hulls lingering much

1C. O. S. Mawson, in "The New Century Book of Facts" (1909).

longer in America than in Great Britain. Twin screws first came into use in 1880.

In 1826 the first steamboat navigated the Allegheny River. The trip from New York to St. Louis by steamer, via New Orleans, used to occupy twenty-nine and a half days. The trip from St. Louis to New Orleans took twelve days in 1823, and five years later the *General Brown* made it in nine days, four hours. Thirty years afterward, so much had steamers been improved, this same passage was easily made in three days.

RIVALRY BETWEEN STEAM AND SAIL.—After the commercial success of the steamship was assured, then began the struggle for supremacy between steam and sail. Larger sailing ships were built, every advantage being taken of the prevailing winds. The substitution of iron for wood was of less benefit to the sailing vessel than to its rival; while the introduction of screw propellers and compound engines, and later of triple or quadruple expansion engines, too heavily handicapped the sailing ships in this unequal contest. Each year the percentage of steam tonnage increases, while that of sailing tonnage correspondingly declines. Since 1880 further economy has been effected by building special types of vessels for special requirements—swift ocean liners, commodious river boats, barges for coastwise trade, slow but regular freighters, and cheap but accommodating ocean tramps.

RECENT IMPROVEMENTS.—The recent adoption of turbine engines in place of modern reciprocating engines marks a further stage of marine development. Besides giving increased speed, the turbine takes up less space, weighs less, and reduces vibration to a minimum. The Allan Line steamship Victorian, built in 1904, was the first vessel fitted with turbine engines. The two sister ships of the Cunard Company, the ill-fated Lusitania and the Mauretania, each with a tonnage of 31,938, were the largest and fastest vessels so equipped at the time of their launching (1907). In 1909 the Mauretania made the passage from Queenstown to New York in the record time of four days, ten hours, forty-one minutes. This same steamer made a record day's run of 676 knots on January 25, 1911. It is interesting to compare this performance with that of the leviathan of a past generation, the Great Eastern (completed in 1859), whose average speed was about fourteen knots, and whose longest day's run did not exceed 333 knots-less than half that of the Mauretania. But the chief usefulness of the Great Eastern was in the laying of the Atlantic cable.

The application of internal-combustion engines to large steamers shows a marked advance in the development of marine engineering. With the introduction of Diesel engines, further economies in fuel consumption were effected.

Owing to recent inventions passengers enjoy greater immunity from accidents, the majority of passenger steamers being now fitted with installation of wireless telegraphy and with submarine signalling apparatus.

CANALS.—Navigation canals may be regarded either as a branch of land or water transport. Their greatest historic importance was just before the rise of railroads. As a branch of land transportation they are disappearing, but as a branch of water transport canals have entered a new stage of development.

Canal boats may be propelled by hand or steam power, or towed from the bank. On still water a horse can draw as much as 100 tons; hence canals are of great service for conveying heavy and bulky goods. For more valuable and perishable goods, this method is usually too slow.

It is essential for a canal to be made on a dead level. Owing to irregularities of country, canals are usually constructed in a number of sections, at different elevations, the boats being transferred from one level to another by locks, or hauled up inclined planes by steam power, or hoisted by hydraulic lifts. Not only may rivers and seas be connected by canals, but rivers themselves may be canalized by deepening and broadening, while waterfalls or rapids may be avoided by canals.

SHIP CANALS.—With the development of steam navigation and maritime commerce arose the necessity of shortening routes wherever possible, hence canals of large dimensions were constructed to permit the passage of the largest vessels. The modern ship canal has played a part of vast economic importance. It cost the Canadian Government more than \$62,000,000 to have the Gulf of St. Lawrence linked to the Great Lakes; but to-day that seven-linked chain is the greatest freight route in the world, and nearly one third of the population of America is dependent on it for their export and import trade.

The value of a ship canal cannot be estimated by the tonnage traffic which yearly passes through. To bring India,
for example, within fourteen days of London, and thus draw
East and West more closely together, is an achievement
whose effect on civilization is hardly less appreciable than
on commerce. The Suez Canal, which cuts through the
Isthmus of Suez and links the Mediterranean and the Red
Sea, is one the world's greatest waterways. Before it was
opened in 1869 the ocean trade of Europe with Oriental
countries was by way of the Cape of Good Hope, and was
small in comparison with the enormous volume of traffic
which now passes through the canal. The Corinth Canal,
connecting the Gulf of Corinth with the Gulf of Ægina,
though only four miles long, is too beset with difficulties to

tempt many vessels from the open sea route. The Kaiser Wilhelm Canal, which links Kiel Bay with the mouth of the Elbe, is of greater strategic importance to Germany than as a factor in her commerce. The Manchester ship canal is the most important canal in Great Britain, and admits the largest ocean-going vessels from the Mersey to that inland city. The Cape Cod Canal shortens the water route between Boston and New York by seventy miles.

Panama Canal.—The greatest engineering achievement in the history of canal construction is the new Isthmian waterway constructed by the United States Government across the Isthmus of Panama. The Panama Canal is about fifty miles long from deep water in the Caribbean Sea to deep water in the Pacific Ocean, and has a summit elevation of eighty-five feet above sea-level. The channel varies in width from 300 to 1,000 feet at the bottom. The canal was formally opened for traffic on August 15, 1914, when the steamship Ancón passed from the Atlantic to the Pacific in ten hours.

What the Panama Canal means not only to the United States but to the world at large cannot be fully realized at this early date. The shortening of routes alone is considerable. The Canal shortens the distance between New York and the following places as follows: San Francisco, 8,100 miles by water; Yokohama, 3,729 miles; Sydney, 3,806 miles; Wellington, New Zealand, 2,542 miles; Hawaii, 5,800 miles; Manila, 5,800 miles. The Canal brings Callao 4,320 miles nearer Liverpool by steamer, reducing the distance from 10,230 miles to 5,910 miles and saving about fourteen days in time. To Valparaiso the shortening in distance is 1,813 miles, and the saving of time is about six days. By its means New Orleans is only 3,264 miles from Callao. Between New Zealand and Europe there is an average saving of 1,600 miles. See Map of U. S. Canal Zone, pp. 116-117.

THE NEW ATLAS



MAPS AND THEIR USES

NO MARINER would attempt to cross the ocean without a chart; no student should attempt to traverse the vast and intricate fields of geography without consulting an Atlas.

Variety of Maps.—Every phase of geographical knowledge has its own map. We have physical maps in a great variety: those showing the surface features—the coast lines, mountains, rivers, canals, heights and depths, etc.; climate maps, illustrating the condition of the atmosphere, its temperature, humidity, and currents; biological maps, showing the distribution of vegetables and animals. Then there are economic maps, representing the various phases of production and transportation of commodities; ethnological maps, showing the distribution of mankind by population, race, religion, or language; political maps, defining political boundaries; travel maps, showing railway, steamship, or automobile routes; historical maps, illustrating the geographical distributions of former periods; in short, the ingenuity of the cartographer has illustrated every fact of geography capable of illustration by means of a map.

Scale of Maps.—The scale to which a map is drawn is usually expressed as the ratio of a distance on the map to the corresponding distance on the earth's surface. It is often expressed by reference to some lineal unit; thus, the map of Louisiana on page 202 is drawn to a scale of 36 miles to an inch. A scale of 1:1,000,000 signifies that each lineal unit on the map represents 1,000,000 such units in nature. A scale of one statute mile to the inch, as in the British Ordnance Survey general map, is the same as the scale of 1:63,360—63,360 inches being the equivalent of one statute mile. Where the scale is omitted, it can be ascertained by dividing the actual length of a meridian degree by the length of a degree measure upon the map.

DIRECTION ON A MAP.—Unless otherwise indicated, the top of the map corresponds to the north. A map of the polar regions is commonly drawn with the pole in the centre; thus, in a map of the Arctic all lines pointing to the centre are pointing northward, while all lines pointing away from the centre are pointing southward. In a map of the Antarctic the reverse is the case, the centre being the South.

GEOGRAPHICAL MEASURES.—The circles of latitude (i. e., distance north or south from the equator) are divided into degrees, minutes, and seconds. The 180 degrees of latitude are numbered from 0 at the equator to 90 at the north and south poles. New York, for example, is in latitude 40° 45′ 23″ N.; Valparaiso, 33° 1′ 53″ S. The circles of longitude (i. e., distance east or west from a standard meridian, as that of Greenwich), perpendicular to the equator and passing through the north and south poles, are divided into either degrees (longitude in arc) or hours (longitude in time). The 360 degrees of longitude are numbered from the primary circle of longitude, or meridian, east and west, to meet at 180. Thus, the longitude of New York may be expressed as 74° or 4h. 56m. W. (i. e., west of Greenwich).

The British statute mile is equal to 5,280 feet (1,609.3 metres), and is used in Great Britain and the United States. The geographical or nautical mile is the length of one minute of latitude, sixty miles being equal to one degree of the equator. If the earth were a perfect sphere, every minute of latitude would be of the same length; but, as it is spheroid, the length of a minute increases from 6,080.27 feet at the equator to 6,108 feet at the poles. The mean length of a geographical or nautical mile is 6,076.8 feet. The British Admiralty mile is 6,080 feet (1,853.2 metres). That of the United States Coast Survey is 6,080.27 feet (1,853.248 metres). That of France is 1,851.9 metres.

PRIME MERIDIANS.—Various first meridians have been used since the days of Ptolemy. The meridian of the island of Ferro in the Canary group was selected in 1630 and continued to be used for a long time. It was assumed to be exactly 20 W. of the Paris observatory. The meridian of Greenwich is now almost universally accepted as the prime meridian; but in the case of topographical maps the following meridians are frequently employed:

OBSERVATORY	LONGITUDE FROM GREENWICH									
· OBSERVATORY	IN TIME	IN ARC								
Paris (Obs. National) Brussels (Old Town) Rome (Collegio Romano) Berlin Stockholm Cape Town Petrograd (Pulkowa Obs.) Bombay Madras Sydney, N. S. W. Madrid Lisbon (Naval Obs.)	oh. 9m 20.9s. E. 0 17 28.6 E. 0 49 55.6 E. 0 53 34.9 E. 1 12 14.0 E. 1 13 58.5 E. 2 1 13.5 E. 4 51 15.7 E. 5 20 59.4 E. 10 4 49.5 E. 0 14 45.4 W. 0 36 44.7 W.	2° 20′ 14″ E. 4 22 11 E. 12 28 53 E. 13 23 42 E. 18 3 30 E. 18 28 41 E. 30 19 39 E. 72 48 55 E. 80 14 50 E. 151 12 23 E. 3 41 16 W. 9 8 23 W.								
Ferro (assumed)	1 10 39.0 W.	17 39 45 W.								
Washington (New Obs.) Washington (Old Obs.)	5 8 15.7 W. 5 8 12.15 W.	77 3 56 W. 77 3 I W.								

Topographical Maps.—Such maps must be on a relatively large scale, in order to show roads, villages, and lesser features. To France belongs the credit of the first topographical map on scientific principles, produced between the years 1750 and 1793. England began its Ordnance Survey in 1784, the primary triangulation being completed in 1858. Trigonometrical surveys on various scales have been undertaken over practically the whole of Europe. Outside Europe, such surveys have been made only in detached areas.

In the United States systematic surveys have been undertaken since 1879, partly by the United States Coast and Geodetic Survey and partly by the Geological Survey. Independent surveys of some States have also been made by the States themselves. The maps of the more thickly populated parts of the Union are on a scale of 1:62,500, and those of the rest of the country on half or a quarter of that scale.

Use of Maps.—Topographical and political maps are the ones most generally consulted, the location of places, roads, railways, rivers, and boundaries being among the everyday needs of the tourist, the merchant, and the average reader. The use of special maps and the value of map comparisons are less widely appreciated. By comparing two or more maps, the causal connection between various distributions will become apparent. For instance, a racial map and a language map should be studied together, likewise a climate map and a vegetation map.

Rightly employed, a map is an interpreter par excellence. The history of any great war will be more readily understood by comparing the political map with a physical, racial, or other special map of the belligerent zones. The strategy of a campaign will be clearer by studying the physical nature of the theatre of war together with the location of the principal roads, railways, and railway centres. For be it remembered that what the chart is to the navigator the map is to the general—it is the prime essential.

In reading the "Geographical Manual," constant reference should be made to the corresponding maps. In this manner, the facts of geography will assume definite and logical form, and a composite picture of lasting value will be built up in the mind of the reader.

WHAT THE MAPS TELL US

Map of the World at War, p. 1.—This map brings home to us in a very striking manner the fact that almost the whole world is engaged in the Great War. It will be seen that the German Alliance (Germany, Austria-Hungary, Bulgaria, and Turkey) occupies a relatively small territory right in the centre of the map—the powers of autocracy and might opposed by the powers of democracy and right. It will be further seen that the large colonial empire of Germany in Africa, Oceania, and China has been swept away. The map will likewise show the further contraction of the Turkish frontiers.

Maps of the Western Front, pp. 2, 3, 6, 7.—On these maps of Belgium and France it is possible to follow the most important campaign of the war. Every town and village mentioned in the war reports will be found on these Every town and village mentioned in the war reports will be found on these maps. Study well the colour scheme showing the different altitudes. Note the line of hills in the northeast with Verdun almost in the centre, and the strong natural positions on which the German line rested after the repulse at the Marne will be apparent. The line held by the Germans in this section formed the second line of defence in the French military system; for it was never expected that a German attack would be made through the neutral states of Belgium and Luxemburg. The north of France was practically undefended. It will be seen that the north of France is comparatively flat, and the ease with which the Germans expected to sweep through Belgium to the heart of France becomes clear. The absence of strong natural positions from Craonne northward through Arras, La Bassée, Ypres, Dixmude, and Nieuport makes it all the more remarkable that the Germans were not able to break through to the coast in the first year of the war when the Allies were to break through to the coast in the first year of the war when the Allies were outnumbered and ourgunned. It is this flat region which has created the trench system of warfare. Note also the further advantage acquired by the Germans in having outlets to the North Sea at Zeebrugge and Ostend, from which they have from time to time made desultory raids on the English

Map of Austro-Italian Frontier, p. 10.—One glance at this map will show the geographical handicap under which Italy is fighting. She is hemmed in by mountains belonging to Austria (the result of the treaty of 1866). The difficulties confronting the Italians on the northern or Tyrolean front are enormous, and the seeming failure of the Italians in this sector is explained by the map. In the northeast the territory is more open, and here trench warfare obtains. The Italians made a thrust at Görz, the key to the Austrian defence of Trieste, which they captured on August 9, 1916. Notice the two Alpine valleys of the Adige and Brenta on the north. These valleys are the natural pathways of an invading army, and if a serious attempt at invasion is made by the Teutons it will be along these historic valleys. See Italy, p. 279. Italy, p. 279.

Map of the Balkan States, p. 11.—Note the railway from Belgrade through Nish and Sofia to Constantinople. This is the main artery by which the Germans can send supplies to their Turkish allies. With Serbia, Bulgaria, and the greater part of Roumania in the hands of the Germans it will be seen that at present the Teutons hold a strong central position, and command the avenue to the Near East. Then note the position of the Allies at Saloniki, and it will be seen that their best approaches of attack upon the trunk railroad will be along the valleys of the Vardar and the Struma. The danger to the Allied rear in the days of King Constantine's uncertain neutrality will also be evident. will also be evident.

Map of the Dardanelles, p. 13.—This map will show how completely Russia's shipping is bottled up in the Black Sea, so long as Constantinople is held by a hostile power. The internationalization of the Bosphorus and the Dardanelles is a possible outcome of the Great War. The ill-fated campaign on the Gallipoli peninsula will be made clearer by studying this map.

Map of Western Russia, p. 14.—The eastern front has been the scene of alternating drives and retreats. It will be seen that the country is generally of an open character, and lends itself better to sweeping operations. *Poland* is the cockpit of eastern Europe as Belgium is that of western Europe. The unification and independence of this ancient country may be looked for as an outcome of the war.

Map of Asia Minor, p. 15.—This map is interesting as showing the supposed original home of the human race in the valley of the Euphrates. The mountainous character of Armenia will be evident. The chief successes of the Russians have been in this region, and especially along the coastal district where their land forces could be supported by the Black Sea fleet. The British are driving along the valleys of the Tigris and the Euphrates, and Bagdad has been their immediate objective in this Mesopotamian campaign. In the west we see the Holy City of Jerusalem, toward which a British force is marching from Egypt. It is possible that the Holy Land will be wrested from the Turks altogether. See Turkey, pp. 288-291.

Map of Eastern and Western Hemispheres, p. 17.—Cut the globe in half and we get two hemispheres. Look at this map and compare them. It will be seen that there is more land north of the equator than south of the equator; the land mass in the Eastern Hemisphere is greater than in the Western Hemisphere. Other striking comparisons may be made. The Eastern Hemisphere has its greatest length from east to west; the Western Hemisphere, from north to south. The former has its principal mountain ranges running west and east; while in the latter they run north and south. Both Hemispheres have their greater peninsulas pointing south; they both also taper to the south. Contrast the Arctic Ocean at the North Pole with the continental mass (Antarctica) at the South Pole.

Map of the World, pp. 18-19.—This map on Mercator's projection shows the parallels of latitude and the meridians cutting each other at right angles, and being represented by straight lines. This produces an apparent enlargement of the polar regions; but this projection is of great value to navigators, for by its means they are enabled to steer by compass in straight lines.

Physical Map of Central and Western Europe, pp. 20-21.—With the exception of the Pyrenees, which separate waters draining respectively to the Atlantic and to the Mediterranean, the great mountain ranges do not form important divides, so that easy routes are generally found from one river basin to another. Water from the northern slopes of the Alps reaches the Mediterranean by the Rhone, the North Sea by the Rhine, and the Black Sea by the Danube. In Russia the divides lie in many places below 600 feet, and continuous waterways cross the continent from south to north, uniting the Baltic with the Black and Casnian sea. the Baltic with the Black and Caspian seas.

Physical Map of Europe, p. 22.—The advantage of showing the isotherms (see p. xii) upon a relief map is at once obvious, for both the false impressions given by considering the sea-level temperatures alone, and the complexity of the isotherms upon an "actual temperature" map are avoided. The map illustrates the fact that in January the temperature over the ocean is high relatively to that over the land; so that, for example, in latitude 50°N., the temperature is 48° F. to the southwest of Ireland and 0° F. to the southeast of the Urals. The southwesterly winds (shown on the Winter Climate map) carry the warmer air across the land, thus giving abnormally high temperatures to western Europe; in the Lofoden Islands, within the Arctic Circle, the temperature is the same as that at Constanza on the Black Sea; while the the temperature is the same as that at Constanza on the Black Sea; while the Isle of Wight is warmer than Venice.

Racial Map of Europe, p. 22. We see here Middle Europe occupied by German peoples with practically the whole of eastern Europe inhabited by Slavs. The rivalry between these two great races (Pan-Germanbited by Panslavism) was one of the underlying causes of the Great War. The colouring will show that Scandinavia and the greater part of the British Isles are inhabited by Teutonic races. In the west of Europe, and in Italy and south Switzerland, we find the Latin races—the French, Spaniards, Portuguese, and Italians. The Roumanians are also of the Latin race. See "Races of Europe," p. 243.

Language Map of Europe, p. 23.—This map is the natural complement of the racial map on the preceding page. The languages spoken in Europe fall into three groups: (1) Indo-European; (2) Semitic; and (3) Ural-

The Indo-European group includes the Teutonic branch (German, Dutch, Flemish, English, Norwegian, Icelandic, Swedish, Danish); the Slavic branch (Russian, Bulgarian, Ruthenian, Serbo-Croatian, Slovenian, Czech or Bohemian, Slovakian, Polish, Weodish, Moravian); the Baltic or Lettic branch (Lithuanian, Lettish); the Greek branch (Greek); the Latinian or Romanic branch (Italian, French, Spanish, Portuguese, Roumaoian, Walloon); the Celtic branch (Welsh, Irish, Scotch Gaelic or Erse, Manx, Breton).

The Semitte group is represented by Maltese, in the island of Malta. Hebrew is a Semitic language; but Yiddish is a German dialect developed under Hebrew and Slavic influence. The Urat-Altate group is represented by the Finno-Ugric languages (Finnish, Lappish, Magyar, Esthonian, etc.), and by the Tatar-Turkish languages (Turkish, spokeo in Turkey, and Tatar, spoken in the Crimea and Kasan). Basque and Albaoian are unattached.

Climate Map of Europe (Summer), p. 24.—A low pressure occurs near Iceland, and the pressure also diminishes toward the heated plains of Asia and the Saharan region. Westerly winds blow across central Europe, and there is a uniform distribution of moderate rains. Toward the east of the continent the winds sweep round and move southward; thus southeastern Russia is dry, for these northerly winds are blowing toward a much hotter area and are taking up water vapour rather than yielding it. Over the Mediterranean lands the winds are on the whole northerly, so that the rainfall is much less than in winter, and is in places very scanty. See "Climate," pp. xi-xiii. pp. xi-xiii.

Climate Map of Europe (Winter), p. 25.—This map shows a well-marked pressure gradient toward the Icelandic "low" (that is, an area of low barometric pressure), accompanied by strong southwesterly winds. The relation of the wind arrows to the isobars (see p. xii) should be noticed; and it must be remembered that the closer the isobars, that is, the steeper the gradient, the stronger the winds. The winds are almost completely drained of their moisture by the margins of the continent, so that the rainfall or snowfall rapidly decreases inland.

Vegetation Map of Europe, p. 26.—The regions bordering the Arctic Ocean have the usual vegeration of the tundras (see under "Vegetation," p. xvi). Extensive forests, chiefly of pines and firs, occupy the land north of 60° latitude, extending farther southward toward the east where the winters are more severe. This region is little suited for agriculture.

The broad-leaved forests of such trees as oak, beech, and maple, which once almost covered central and western Europe, occupied regions where no very extreme conditions, whether of cold or heat, or deficient rainfall, were found. This climate was eminently suitable for agriculture and pasturing, hence these forests have been almost destroyed, and the largest areas now remaining are found in Russia, Austria-Hungary, and the North Baltic region. The confifers reappear on the mountains and elsewhere where the climate and soils are suitable. The high summer temperature and the low rainfall of southeast Europe are among the causes of the gradual change from forest to temperate grassland or steppe. Still farther to the southeast the increasing heat and drought cause the rich grasses and herbs of the steppe to become less and less abundant, so that a semi-desett region of sparse, scattered vegetation, varied by patches of true desert, borders the Caspian Sea. The steppes are naturally suited for pasturing; but in the richer western and northwestern portions of the grasslands the cultivation of cereals

becomes increasingly important. In the Mediterranean districts the hot, somewhat dry summers, and the comparatively mild wet winters produce a special type of vegetation. Evergreens abound, while the summer sunshine makes the region favourable for the production of the vine and many luscious fruits.

Economic Map of Europe, p. 27.—This map should be compared with the Vegetation Map. The most highly productive areas are the broad-leaved forest and temperate grassland regions and parts of the Mediterranean region, or the compared with the statement of the Mediterranean region, and the statement of the Mediterranean region, although in the latter irrigation is frequently necessary. Note particularly the areas where coal and iron occur together. As Russia may shortly experience an industrial rebirth, note should be taken of the coal field lying near the great mineral region of the Central Urals, thus enabling the metals to be worked locally. See "Vegetable products" and "Minerals" under Europe,

Population Map of Europe, p. 28.—This map may be compared particularly with those showing vegetation and economic features. The scantily peopled areas include the greater part of the region north of latitude 60° together with the semi-desert depression to the north of the Caspian Sea, the Scottish Highlands, and the high mountain regions.

As a rule the most densely peopled areas correspond with the industrial regions, and the gathering of the population into great cities is specially characteristic of Great Britain and Germany. Italy affords a striking contrast to the Iberian and Balkan peninsulas, having a far greater density of population although the two latter have far greater mineral resources; this comparison suggests that national character and political factors must be taken into account in estimating the economic possibilities of a region. In general the population is more dense round the coasts, where the additional occupations of fishing and commerce can be carried on. River valleys, both from their fertility and as being trade routes, are also usually well peopled. An example of the effect of the poverty of the soil upon the density of population is afforded by the north German plain. the north German plain.

Political Map of Europe, p. 29.—This map shows the German "barred zones" in connection with the naval operations of the Great War. Note especially the "safety lane" to Falmouth, England, along which the Americans were to be permitted to send one vessel per week, provided it were striped like a zebra. This insolent request on the part of the German government tried American patience to the breaking point, and was shortly followed by a rupture of diplomatic relations and by war.

Map of Central and Western Europe, pp. 30-31.—This map on a relatively large scale shows the various boundaries in an exceptionally clear manner. Note the present boundary of Turkey, and remember that only a few years ago Turkey in Europe stretched across to the Adriatic. Note the Kaiser Wilhelm Canal between Kiel and the Elbe; its strategic importance is very patent. Note also the commanding position of Gibraltar at the entrance to the Mediterranean, and of Constantinople at the approach to the Black Sea.

Map of Central Europe, p. 32.—This map gives prominence to railroads and fortified towns. Germany has a greater railroad mileage than any other country in Europe. Russia comes next, although when her extensive area is taken into account the mileage is considerably discounted. France ranks third, followed by Austria-Hungary, Great Britain, and Italy. total railroad mileage for Europe is 215,140; that of America is 355,000.

In regard to fortified towns, they are the thickest along the western frontier of Germany. The chain of fortresses from Liége to Belfort is eloquent of the danger which Belgium and France anticipated from German militarism. The chain of fortresses across northern Italy forms a second line of defence against northern invasion. The virtual absence of fortresses on the frontier between Germany and Austria is significant.

Map of the British Isles, p. 33.—The British Isles are an archipelago consisting of two large islands and many smaller ones. Physically, Scotland is the most mountainous part of the British Isles. Note the deeply indented coast line and the many important seaports. Note the dense population of the Midlands, as well as of Lancashire (Manchester, Oldham, Bolton, Liverpool, etc.) and of the West Riding of Yorkshire (Leeds, Bradford, Halifax, etc.). These are the industrial and most populous districts. Ireland has comparatively few large towns. The steamer routes indicated on the map tell their own story of British mercantile supremacy. Note the position of Liverpool, Manchester, Plymouth, Southampton, London, and Dover. See pp. 245-256. See pp. 245-256.

And of England and Wales, p. 34.—This map shows the counties. See Table on p. 253. Yorkshire is the largest county, and Rulland the smallest. Notice the network of railroads, the main lines all converging on London. The broadest part of the country lies nearest to the continent.

Map of Scotland, p. 35.—The north of Scotland in its coast line, its mountainous character, and the large number of its islands somewhat resemble Scandinavia. Contrast the east and west coasts; the former is generally low and fairly regular; the latter is mountainous and very irregular, with deep indentations. Note the position of Glasgow on the Clyde and of Edinburgh on the Firth of Forth. See p. 254.

Map of Ireland, p. 36.—Ireland forms a breakwater to Great Britain: it prevents the Atlantic billows from striking part of the British shore, and it takes the first supply of the rain from the Atlantic; hence its verdure has earned for Ireland the name *Emerald Isle*. Ireland is broader, shorter, and more compact than Great Britain. The western coast is mountainous and irregular. The east and south coasts are lower and more regular, and have irregular. The east and south coasts are lower and more regular, and have excellent harbours. Note the position of Belfast, Dublin, and Queenstown. See pp. 254-255.

Map of Sweden, Norway, and Denmark, p. 37.—Norway and Sweden form the largest and longest peninsula in Europe. Like Italy, it splits into two in the south. Norway is a narrow region of mountains and plateaus; Sweden is a broad region of sloping plains. Note the deep indentations on the Atlantic coast; these are called fords. The plateaus of Scandinavia are called fjelds. Denmark, the "Keeper of the Baltic Portals," has a broken

coast line. Note the position of Copenhagen, Christiania, and Stockholm. See pp. 256-258.

Map of the Netherlands and Belgium, p. 38.—The territory of the Netherlands has been formed partly by deposits from rivers and partly by conquests from the sea. Notice its advantageous position at the mouth of the Rhine—the great western waterway of Europe. Note the position of Rotterdam, Amsterdam, and The Hague. See pp. 259-260.

Belgium likewise holds a position most favourable for trade. Note its short coast line (only 42 miles long). The neutral state of Luxemburg lies on the southeast. Note the position of Antwerp, Ostend, Brussels, and Liége. See pp. 260-262.

See pp. 260-262.

Map of Denmark, p. 39.—This map shows the lost Danish provinces of Schleswig-Holstein which were torn from Denmark by Germany. Note the Kaiser Wilhelm Canal running southwest from Kiel. See "Sweden, Norway, and Denmark" above, also pp. 258-259.

Map of France, p. 40.—La Belle France is the country which lies nearest to Great Britain. Its position enables it to command a large part of the trade of the two busiest seas in the world—the Atlantic and the Mediterranean. France is very compact in shape, and is roughly octagonal. The coast line is long, but its harbours are not so good as those of Great Britain; those on the south side of the English channel forming a striking contrast to the spacious harbours on the north side. Notice the lost territories of Alsace and Lorraine. Note the position of Calais, Boulogne, Havre, Paris, Bordeaux, and Marseilles. See pp. 262-266.

Map of Germany, p. 41.—Note the strong commercial position of Germany. Its frontiers march with those of the great Continental states; its position on the Baltic gives it facilities for trading with the Baltic countries; its coast upon the North Sea gives it access to Great Britain, America, and other transmarine countries. Every country on the Continent is linked up with the German railway system. The relative extent of Prussia and the other constituent states should be observed, as it helps to explain Prussian domination within the Empire. Note the position of Berlin, Hamburg, Kiel, Helgoland, Bremen, Cologne, and Essen. See pp. 267-271.

Map of Russia in Europe, p. 42.—This map should be compared with the Vegetation and Population Maps of Europe, in order to understand why certain parts of Russia are more thickly peopled than others. Russia has a small coast line in comparison with its great size. Its commercial position would be improved by free access to the Mediterranean from the rich Black Sea provinces. Its northern ports are ice-bound in winter, with the exception of the new ice-free port of Alexandrovsk on Catherine Harbour. Note the position of this port, also of Archangel, Riga, Moscow, Petrograd, Odessa, and Baku (in the Caucasus). See pp. 272-275.

Map of Austria-Hungary, p. 43.—Austria-Hungary has a very small seaboard, and practically the whole of this forms part of "Unredeemed Italy." On its interior boundaries it touches the great industrial countries of the Continent. Notice the lie of the mountains; nearly half of the Alps are in Continent. Notice the lie of the mountains; nearly half of the Alps are in Austria. After Switzerland, Austria is the most mountainous country in Europe. The dual monarchy is an agglomeration of states and races. Bohemia advances into the heart of the North German Plains. Note the position of Vienna, Trieste, Pola, Budapest, Herzegovina, and Sarajevo, the capital of Bosnia. See pp. 275-277.

Map of Switzerland, p. 44.—Switzerland is the most mountainous country in Europe. It is the playground of the civilized world. From a military point of view, it is a great natural fortress. Though it has no coast line and no water communication with the sea, it occupies a fine commercial position; for it touches the four greatest industrial countries of the Continent—France, Germany, Italy, and Austria. For its industries, it has everywhere at hand the enormous water-power of the Alpine streams. Note the position of Bern, Zurich, Lucerne, and Neuchatel. See pp. 278-279.

Map of Italy, p. 45.—In shape Italy has been compared to a boot. It may be divided into three parts. (1) Continental Italy, consisting of a level and fertile plain—the Plain of Lombardy—guarded by mountains on the north and south; (2) Peninsular Italy, a mountainous plateau almost filled by the Apennines and their branches; and (3) Insular Italy, consisting of Sicily, Sardinia, and other islands. Italy holds a commanding commercial position in the Mediterranean, and is provided with excellent harbours. Notice how the Alps shut off Italy from the rest of Europe. Note the position of Genoa, Rome, Naples, Brindisi, and Venice. See pp. 279-281.

Map of Spain and Portugal, p. 46.—The Iberian Peninsula, as this is called, has many excellent harbours on the two great commercial seas of the world—the Atlantic and the Mediterranean. The Pyrenees form the northern boundary of Spain. The mountains of the Peninsula mostly run west and east. The great central plateau is the chief characteristic feature of Spain. The country is well watered with navigable streams. Note the position of Oporto, Lisbon, Valencia, Barcelona, and Gibraltar. See pp.

Map of the Empire of Alexander the Great, p. 47.—The plan of Alexander the Great (356-323 B. c.) was to Hellenize the East. To what extent he succeeded may be gathered by a glance at this map. His reign constitutes an important period in the history of mankind. Much of the civilization of Greece followed in the train of his armies; a road was opened to India, and the products of the Orient were introduced into Europe.

Map of the Roman Empire (Time of Julius Cæsar), p. 47.—In power, extent, and solidity the Roman Empire was the most remarkable creation of antiquity, and its influence on the world has exceeded that of any other empire. Rome spread civilization among the barbarian tribes of northern and central Europe. Wherever they went, the Roman armies built magnificent

roads, which even to-day are among the finest in Europe. The landing of Julius Cæsar in Britain (55 B. c.) is known to every schoolboy. Many of the modern names are suggested by the ancient Latin names on the map. Gallia or Gaul was the old name for the territory of which modern France forms a

Map of the Roman Empire in the Fifth Century, p. 47.-In 376 A. D. Map of the Roman Empire in the Fifth Century, p. 47.—In 376 A. D. a tribe of Goths were permitted by the Roman Emperor Valens to settle in Thrace, south of the Danube. This was the first crevice in the great wall of defence. Exactly a century after this fatal mistake, Rome fell (476). The overthrow of the Western Empire by the Teutonic invaders marks the beginning of the Dark Ages. When the barbarian flood swept away the landmarks of the Roman Empire, all was in confusion for a century or more; but then were laid the foundations of the map of modern Europe. Note the distribution of the various tribes from which the chief nations have

Map of the Empire of Charlemagne, p. 47.—Charlemagne, or Charles the Great, King of the Franks and subsequently Emperor of the West, waged four great wars: against the Saxons; against the Lombards of Italy; against the Saracens in Spain; and against the Avars of Hungary. His empire included France, most of Catalonia, Navarre, and Aragon, the Netherlands, Germany as far as the Elbe, Saale, and Eider, Upper and Middle Italy, Istria, and a part of Slavonia. Charlemagne divided his empire among his three sons: Charles received Germany; Louis, Aquitaine; and Pepin, Italy. See France, p. 262, and Germany, p. 267.

Map of Ancient Greece, p. 48.—Ancient Greece was not a single country; it was divided into a number of independent states or territories (Thessaly, Epirus, Attica, Corinth, etc.). Athens, the capital of Attica and the chief town of the Ionic tribe, was the leading democratic state. Sparta or Lacedæmon, the chief town of Laconia and of the Doric tribe, was the leading aristocratic state. The Greeks called one another Hellenes; all other nations they called barbarians, that is, "The unintelligible folk," because they could not understand their speech. Macedonia and Thrace were regarded as outside the Hellenic pale till Philip II. of Macedon (359-336 B. c.) brought the Greek states by war and diplomacy to recognize his leadership. Map of Ancient Greece, p. 48 .--Ancient Greece was not a single country;

Physical Map of Africa, p. 49.—On consulting the colour scale it will be noticed that the proportion of land below 600 feet is very small, the slope upward from the coast being almost everywhere rapid. The most general description of the relief of Africa is that it consists of a vast table-land with a warped-up rim.

Looking at the isotherms for July (northern summer), the abnormally high temperatures (over 04°F.) indicated in the Sahara and near the shores of the Red Sea are noticed. The way in which the 80° and 88° isotherms follow the trend of the coast should be noticed, the temperature rising rapidly from sea to land. In the southern part of the continent there is a contrast between the east and west coasts. This is due to the relatively cold Benguela current, which pushes the isotherms on the west coast toward the equator. In South Africa the highest temperature does not approach 94°F., for the breadth of the continent is much less than in the north. The effect of the Benguela current is even more marked at this season, as shown by the steep temperature gradient westward. See pp. 299-300.

Political Map of Africa, p. 49.—The relative importance of the colonial possessions of the European powers cannot be measured by area alone; in many cases, as shown by comparison with the economic map, much of the land is unproductive, or it may be difficult of access. Thus, the vast areas controlled by France include much of the Sahara, and the very inaccessible basin of the Shari River.

For actual European settlement, as opposed to mere exploitation, the extra-tropical portions For actual European settlement, as opposed to mere exploitation, the extra-tropical portions of Africa are most favourable. In the south practically the whole of these lands are British, while in the north the French have Algeria and Tunis. The railway system of Africa is still in its infancy. There is as yet no trans-continental railway, for the volume of trade with the interior does not warrant so heavy an expenditure of capital. Comparison with the economic map shows the influence of rich mineral deposits upon the development of railways. For example, a line was constructed from Cape Town to the Kimberley diamond fields, thence to the Rhodesian goldfields, and thence by the Victoria Falls to the Katanga copper mines in Belgian Kongo. Johannesburg, with the famous Rand gold mines, is the centre of a radiating railway system giving direct access to four seaports, Cape Town, Port Elizabeth, Durban, and Lourenço Marques.

The British railway to Khartum was built to obtain effective military control over the Egyptian Sudan. It is now being extended into promising agricultural districts, and supple-

The British railway to Khartuin was built to obtain elective initiary control over the Egyptian Sudan. It is now being extended into promising agricultural districts, and supplements the interrupted navigation of the Nile. The line from Berber to Port Sudan gives the region direct access to the sea, and this route is convenient also for African pilgrims to Mecca. See pp. 299-304.

Climate Map of Africa (May-October), p. 50.—During the northern summer the belt of highest temperature lies to the north of the equator, and hence the low-pressure belt occupies a similar position. A deep depression over Asia causes the pressure gradient in northeast Africa to fall from west to east, with the result that northwesterly winds prevail over the Lower Nile and Red Sea areas.

In northwest Africa the pressure falls toward the Sahara and the northeast trade winds pre

vail.

The greater part of extra-tropical South Africa lies in the high-pressure belt normally to be found about 30° N. and S. of the equator. From the southern margin of this belt the pressure falls steadily over the Southern Ocean, and the winds blow from a northwesterly to westerly direction. In this westerly wind belt cyclonic depressions frequently pass eastward.

When comparing the pressure and winds with the rainfall, it must be remembered that the former show July conditions only, while the latter is the total for a period of six months, during which the low-pressure belt moves northward to the position shown and then southward again.

during which the low-pressure pert moves northward to the pulse summed up as follows: On and near the equator is a region wet at all seasons; north and south of this lie regions with a rainy season in the summer months, followed by a dry season; beyond these again are regions with no wet season, while at the extremities of the continent are regions with rainy winters and relatively dry summers. See "Climate" under Africa, p. 300.

Climate Map of Africa (November-April), p. 51.—The heat belt is now in the southern hemisphere, and the low-pressure belt, with its convectional currents and heavy rains is here also. Northeasterly winds blow along the

east coast as far as 20° S., while the southeast trades bring rain to southeast Africa, leaving the southwest coastal belt dry. In West Africa, between 10° N. and S., the southeast trades are drawn landward as southwesterly rain-bearing winds.

Across the Sahara stretches the normal relatively high-pressure belt, from the southern margin of which blow the northeast trades. The lands to the north of the Sahara lie in the belt of westerly winds and cyclones, and so are having a rainy winter season.

Vegetation Map of Africa, p. 52.—In the absence of any very marked variations of temperature the vegetation of Africa is mainly determined by the seasonal and mean annual rainfall.

In the equatorial regions of heavy and practically continuous rainfall a dense evergreen forest growth is found. In the regions with a marked season of drought a summer vegetation of tall grasses predominates; these are the tropical grasslands or savannss. The high-lying level regions (above 4,000 feet) of the southern and eastern table-lands are practically treeless, while on the steep slopes exposed to wet winds temperate forests are found.

The South African velds forms a temperate grassland, for the palms and other trees typical of the tropical practical grasslands are about. A temperate vegetation is found too in lofty Abysinia

The South African veldt forms a temperate grassland, for the palms and other trees typical of the tropical grasslands are absent. A temperate vegetation is found too in lofty Abyssinia. The great swamps which surround the shallow lakes on the table-land should be noticed, and also those on the White Nile and Bahr-el-Ghazal, which give rise to the "sudd," masses of floating vegetation which seriously impede navigation. The contrasts in vegetation between the parts of East Africa north and south of the equator may be compared with the similar contrasts in climate. See under Africa, p. 300.

Economic Map of Africa, p. 53.—Two points to be noticed are the absence of industrial districts in Africa (contrast southern Europe and Britain) and the existence of large areas, which, while not incapable of production, are as yet unexploited, and yield no commercial products.

Of the chief bases of industry, coal and iron, the former is found in considerable quantities in British South Africa, while the latter is of great importance in Algeria, whence it is exported to France. All the coal fields are at a distance from the sea; the most conveniently placed are the Natal coal fields, connected by rail with Durban, and the Transvaal coal fields near the gold-mining districts. Water-power (e.g., the Victoria Falls) is available in abundance. In the Mediterranean region of North Africa the typical products, wheat, barley, wine, and olives are found, while wheat and wine are also important in the Cape region. To these may be added fruits, which are grown in both areas. See under Africa, p. 300.

Population Map of Africa, p. 54.—Africa has an average density of only thirteen persons to the square mile. Not only the deserts but vast areas covered with a luxuriant vegetation are scarcely inhabited.

The Nile Valley alone can show such a dense grouping as is found (outside the large towns) in southeastern Pennsylvania. In the Nile delta, too, are found four out of the nineteen African towns with over 50,000 inhabitants. The population of the Nile Valley steadily decreases with the distance from the Mediterranean Sea, but in Uganda on the shores of Victoria Nyanza

with the distance from the Mediterranean Sea, but in Uganda on the shores of Victoria Nyanza there is again an increase.

The better-watered portions of the "Mediterranean" region of northwest Africa are well peopled, while in the similar "Cape" region a considerable population is grouped about Cape Town. The southeastern coastal terraces support a relatively large agricultural and pastoral population, of whom only a small proportion are Europeans.

Of great interest is the large native population of Upper and Lower Nigeria, where no less than eight towns have over 50,000 inhabitants. It should be noted that both equatorial forest and tropical grasslands are included in this area, a fact which suggests that other regions bearing a similar vegetation could support far more people than at present.

Maps of Africa, pp. 55, 56.—These two maps show the political divisions of Africa in greater detail than the map on page 49 (see above). The "scramble for Africa" is strikingly illustrated. These maps should be studied in connection with the text. Note the inset map showing the delta of the Nile. German East Africa is not likely to be restored to Germany, so that the British have at last acquired an "all red" route from the Cape to the Mediterranean. See pp. 299-304.

Physical Map of Asia, p. 57.—The most striking physical divisions are four in number: (1) A great triangular northern plain, with its base along the Arctic Ocean and its apex in Turan. (2) A belt of mountains which can be traced from the Mediterranean shores right across the continent; the belt contracts to a knot at the Pamirs. (3) Two table-lands in the south, separated from the mountains by alluvial plains. (4) The mountainous peninsulas and festoons of islands, from Kamchatka to Sumatra, which prolong the continent eastward and form the true seaboard, overlooking the Pacific deeps

The map appears to be a complicated one owing to the extraordinarily rapid fall of temperature from south to north in eastern Asia, which causes the isotherms to be very close together. A reference to the winter climate map shows that this is due to the strong and piercingly cold winds which blow down from the Siberian Plain and Mongolia. See pp. 313-319.

Political Map of Asia, p. 57.—From this map, side by side with the relief map, it will be seen that broadly speaking Russia has been gradually extended to include the whole of the northern plains; the Chinese have taken over the government of the central plateaus and basins.

The most complete railway system is that of British India. The greatest of the Russian railways is that across the Northern Plain from Moscow to Vladivostok. Very great difficulty was experienced in constructing the line around the precipitous southern shore of Lake Baikal. In Western Asia is the Bardad railway, which is planned to run from Smyrna to Bagdad and thence to the Persian Guif. A second railway is being constructed to take the pilgrims to Mecca. It already runs from Aleppo, through Damascus, as far as Medina. Other railways worth noticing are the Japanese system, and the Dutch railway in Java. See pp. 314-319.

Climate Map of Asia (Summer), p. 58.—During this season the land is relatively warmer than the sea, and the pressure is therefore lower over the land. Hence the chief winds are the in-blowing summer monsoons. The winds are deflected and blow obliquely instead of directly inland, making an acute angle with the isobars. The highest temperature is found in the Indus Valley, which is one of the hottest places in the world. See "Climate" in the Introduction, pp. xi-xiii, also under Asia, p. 314.

Climate Map of Asia (Winter), p. 59.—In winter the tropical lands are relatively cooler than the seas, while in high latitudes the lands are intensely cold. Hence the pressure is highest over the land, and the pressure gradient is steepest, making the winds strongest, outside the tropics. Over the

greater part of *India* there is a light northeast monsoon, with westerly winds down the Ganges valley. It is interesting to note that at both seasons the general set of the winds of the Euphrates and Tigris valleys is down-stream. See p. 314.

Vegetation Map of Asia, p. 60.—In Asia there are examples of all the chief types of vegetation to be found upon the globe. In southern Japan and central China, where the winters are no longer cold, sub-tropical trees and shrubs, such as the magnolia and camellia, appear, and the broad-leaved forests are largely evergreen. Well-wooded grasslands (jungle) are found in India and Farther India; but wherever the rains are unusually abundant (over 60 inches) dense forests are found, as, for example, in Annam, Burma, Assam, and on the Western Ghats of India. In western Asia the vegetation bears out the statement that there is no real separateness between Europe and Asia, for the various belts all extend into Europe. See D. 314. and Asia, for the various belts all extend into Europe. See p. 314.

Economic Map of Asia, p. 61.—The olive, vine, and mulberry are found in Asia Minor and Cyprus; these are typical Mediterranean products. To-bacco, too, of good quality, is grown near Smyrna and in Syria. Of the highly productive regions, India, China, and Japan are tropical or subtropical monsoon lands; while Java has the equatorial type of climate. Wheat is grown in western Siberia, and promises to be an important crop in Manchuria also. See "Vegetable Products" and "Minerals" under Asia, p. 314.

Population Map of Asia, p. 62.—A reference to the vegetation map shows that much of the almost uninhabited part of Asia is of the semi-desert type, capable only of supporting nomadic pastoral peoples whose numbers could never become great. Within these regions there are, however, tracts of land that can be irrigated. Railways link up this cultivated area with Russia. Many naturally productive regions of temperate Asia remain undeveloped because of difficulty of access. In Siberia and Manchuria it is noticeable how the population groups itself about the railways. In Burma, Siam, and India the densest population is found along the river valleys.

Map of Modern Palestine, p. 63.—The build is simple: (1) The plateaus of eastern and western Palestine; (2) the Jordan Valley, a deep longitudinal depression between these two plateaus, reaching in the Bahr Lut (Dead Sea) nearly 1,300 feet below sea-level; (3) the Maritime Plain, between the Mediterranean and the Western Highlands; (4) the Valley of Jezreel, cutting the Western Highlands into two unequal portions. Note the position of Acre, Jaffa or Yafa, and El Kuds (Jerusalem). See p. 315.

Map of Arabia and the Kingdom of Hejaz, p. 64.—Arabia is an irregular parallelogram, with a short coast line and a simple form. The surface may be divided into three parts: (1) a central plateau; (2) a desert ring; and (3) coast ranges on the west, south, and southeast edges of the peninsula. Arabia is one of the most thinly peopled countries in the world. The Kingdom of Hejaz on the west is the most important region in Arabia; it is the newest kingdom in the world. Note the railway to Medina, also the positions of Mecca, Jedda, and Aden. See p. 315.

Map of Persia, Afghanistan, and Baluchistan, p. 65.—Persia is the western and larger half of the great Plateau of Iran; it is encircled by high mountain ranges. Afghanistan and Baluchistan form the eastern section of the same plateau. Afghanistan is the more mountainous, and is of importance to Great Britain as it commands the plains of British India. Note the position of *Teheran*, *Bushire*, *Kabul*, *Quetta* (an important British military station), and *Kandahar*. See pp. 315,319.

Map of India, p. 66.—India has four highland systems (the Himalayas, the Vindhyas, dividing the Gangetic basin from the Deccan, and the Western and Eastern Ghats), one vast plain (the Indo-Gangetic Plain), and one vast plateau (the Deccan). This map should be compared with the Physical, Climate, Vegetation, Economic, and Population Maps of Asia. Note the position of Bombay, with its magnificent harbour; Madras, Calcutta, and Delhi. Colombo in Ceylon is an important port of call for vessels to the Far East and Australia See pp. 216-218. and Australia See pp. 316-318.

Map of Burma, Siam, and French Indo-China, p. 67.—This "peninsula of peninsulas" lies within the torrid zone. Its population is relatively much less dense than that of India or China—the other monsoon countries. Singapore is the most important port of call on the way to the Far East. Note its commanding position. Siam contains the whole basin of the Menam and part of the valley of the Mekong. See pp. 318-319.

Map of the Philippine Islands, p. 68.—The Philippine Islands form part of the true Pacific border of Asia. They are tropical islands with a high temperature and abundant rainfall throughout the year; most of them are mountainous and intensely volcanic. Manila, the capital, is protected by Cavite on Manila Bay. It was taken by Admiral Dewey for the United States in June, 1898. See p. 340.

Map of Japan, p. 69.—The islands of Japan are very mountainous and volcanic. The coast line is very long, and in many parts is deeply indented. The coasts of the Inland Sea resemble those of Norway with an Italian sky above them, and with the vegetation of the Orient. Japan has many points in common with Great Britain: both are insular empires; both are well situated for commerce; both have a higher temperature and fewer extremes in climate than the countries in the same latitude on the respective major. situated for commerce; both have a higher temperature and fewer extremes in climate than the countries in the same latitude on the respective mainlands off which they lie; each is warmed by a warm ocean current—Great Britain by the Gulf Stream, Japan by the Japan Current (Kuro-Siwo); London and Tokyo are both aggregates of towns and villages—the former "a wilderness of bricks and mortar," the latter "a wilderness of bamboo and paper." The expansion of Japan on the Chinese mainland should be noticed. Chosen is the Japanese name for Korea. Note the Japanese railway traversing Manchuria; also the position of Tokyo, Yokohama, Kobe, Nagasaki,

Shimonoseki, Chemulpo, Mukden, Harbin, and Kiauchau (taken from Germany). See pp. 316-317.

Map of China, p. 70.—The Republic of China is for the most part mountainous. It has a long coast line. Notice the Great Wall of China dividing China proper from Mongolia. The wall, "like a huge snake turned to stone," winds over the crests of mountains, down deep gorges, and over lofty plateaus. The pressure of Russia in the north and northeast, and of Japan in the east should be noticed; take particular note of Manchuria. Note the position of Peking, Shanghai, Canton, Formosa (Japanese), and Hongkong (British). See pp. 200212, 216 (British). See pp. 309-312, 316.

Physical Map of Australasia, p.71.—The continent of Australia has many points in common with Africa: both are compact in shape, with their highest ranges of mountains on the eastern edge, and the highest peaks in the southeast; both have extensive deserts in the interior; in both the volume of water in their longest rivers—the Nile and the Murray—diminishes as they approach the sea; the east coasts of both are protected—the one by the Great Barrier Reef, the other by the island of Madagascar.

As regards temperature range, the maximum (over 30°) is found in the centre of the continent and over the plains of the middle Darling, while the minimum occurs in the helt within 10° of the equator, where the temperature varies but little from 80°. Elsewhere the range, although between different limits, approximates in amount to that in the British Isles. See pp. 321-322.

Political and Economic Map of Australasia, p.71—The railway network of Australia is most complete in the more densely peopled southeast, where the three capital cities, Sydney, Melbourne, and Adelaide, form important nodal points. In general the Australian railways first developed along lines at right angles to the coast, for they ran inland from the seaports to the mining centres. The table-land of the west is rich in gold, while the eastern highlands (including the detached portion in Tasmania) are rich in minerals. Of the coal areas the largest is the great seaboard field from Newcastle to Bulli. See pp. 319-323.

Vegetation Map of Australasia, p. 72.—The vegetation of Australia, Vegetation Map of Australasia, p. 72.—The vegetation of Australia, viewed in its broader aspects, presents a very simple picture, and shows clearly the control exercised by seasonal rainfall distribution. Only along a very narrow belt, bordering the northern and northeastern coasts, are the monsoon rains sufficiently heavy and prolonged to support a dense forest growth. With the diminishing rainfall, the forest passes over into a more open grassy formation, with scattered patches of woodland, notably the belts of trees along the rivers and round the water pools. Still further inland this wooded grassland is replaced by a true savannah. See p. 321.

Population Map of Australasia, p. 73.—The moderately well-peopled area of southeastern Australia is the belt of land with over 20 inches of rain, this rain being distributed fairly well throughout the year. When the tropic is passed, however, the population belt becomes markedly narrower, and finally dwindles away. The arid and semi-arid scrub-lands are practically unpeopled, save in mining areas such as those of Western Australia, where all necessities are brought from a long distance. In New Zealand there are large areas of mountain land unsuited for close settlement, but the plains are

Physical Map of Pacific Ocean, p. 75.—This map brings out the shape of the ocean, which narrows northward until it is almost landlocked, while southward, too, the coasts of New Zealand and South America approach one another. The opposite margins differ very markedly, the American coasts being relatively unbroken, except to a minor degree by the fiords and associated islands in higher latitudes. On the Asiatic side, great complexity is the rule; a series of island loops and submarine ridges, traceable from New Tealand to the Aleutian Islands, faces the open ocean, while behind this chain is a corresponding series of almost land-girt seas, the home of the Chinese and Malay trader. The floor of the Pacific is on the whole remarkably level, abrupt slopes (shown by crowded isobars) being confined to the margins. Right across the centre of the North Pacific a volcanic ridge runs from northwest to southeast, the loftiest peaks and the waste from them building the Hawaiian group.

Map of North Pacific Ocean, pp. 76-77.—This map is interesting as showing the United States and all the insular dependencies. Note the various steamship routes, with the length of passage indicated. The importance of Honolulu as a halting-place hetween American and Australasian and Japanese ports will be observed. As yet there is no direct line to the Philippine Islands, the American vessels going by way of Hongkong. The great saving of time and distance effected by use of the Panama Canal is clearly demonstrated. The various submarine cables show in which direction the greater interests of America lie.

Map of Hawaii, pp. 78-79.—The Hawaiian group has been described as "an earthly Paradise, washed by the soft blue and sunny waters of the Pacific, and breathed on by mild and balmy zephyrs." The island of Hawaii is full of volcanoes, the cones of Mauna Loa and Mauna Kea soaring to close upon 14,000 feet. The islands rise abruptly from deep water; the coasts are steep and regular, with very few openings. The inset shows the distances between Hawaii and the principal ports.

Isochronic Charts, p. 80.—These isochronic (Greek isos, equal, chronos, time) charts graphically show the saving of time effected by the Panama Canal. The zones of colour show the number of days taken to reach certain points from New York before and after the completion of the Canal. These charts should be compared with the map of the North Pacific Ocean (pp. 76-77). See p. xxii.

Physical Map of North America, p. 81.—Any generalized section drawn across North America along a parallel of latitude shows the same essential

features. Beginning at the west, there is a sharp rise from the Pacific deeps to the lofty and broad Cordilleran belt. From the eastern foot of the Rocky Mountains a long gradual slope leads to a central depression, beyond which there is a gentle rise to the less imposing Eastern Highlands. Finally, a level there is a gentle rise to the less imposing Eastern Highlands. Finally, a level stretch of coastal plain and continental shelf precedes a sudden drop to the abysses of the Atlantic Ocean. To the southward convergence of the two Highland belts the continent owes its shape—a triangle with a southward-

In the medial hollow much water has collected. In the northern part is the comparatively shallow sheet called Hudson Bay, farther south is the group of the five Great Lakes, next comes the Mississippi River, which in turn empties itself into the deep Gulf of Mexico. Roughly parallel to the shore of Hudson Bay and to one another are two more great water lines. The first includes the lower Mackenzie River, a long festoon of lakes from the Great Bear to Ontario, and the St. Lawrence River; the second is formed by the rivers Missouri and Ohio. The latter line marks roughly the greatest extension of the continental ice-sheet during the glacial periods, while the former probably shows a halting place of the edge of the sheet during a period of retreat. Beyond the Appalachians the ice reached the latitude of New York, and throughout the once glaciated regions are such characteristic phenomena as innumerable lakes, great and small; rivers broken by falls and rapids; bare polished knolls and ridges, alternating with valleys and hollows filled with a deep and fertile deposit of till or boulder clay.

The depth of the Great Lakes may be attributed to a depression of this part of the continent, for the submarine contours show clearly that the St. Lawrence once entered the Atlantic just south of the Great Newfoundland Bank.

The great central Plains are so broad that, although they only gradually slope upward toward the west, they lie between 5,000 and 6,000 feet above the sea when the foot-hills of the Rockies are reached.

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The great central Flains are so broad that, although they only gradually slope upward toward the west, they lie between 5,000 and 6,000 feet above the sea when the foot-hills of the Rockies are reached.

A remarkable feature of the western highlands is the long narrow trough, bordered by parallel ridges, which can be traced almost from end to end of its Pacific border. The outer most ridge is formed by the peninsula of Lower California and the Coast Ranges of the States of California, Oregon, and Washington, further north it is partially drowned, and appears as a series of islands, of which Vancouver and the Queen Charlotte group are typical. The parallel trough includes the Gulf of California, the Salton depression, the Californian Valley, a smaller valley (the Willamette) leading northward to the Columbia River, Puget Sound, and the series of sounds and straits separating the island ridge from the mainland. Forming the inner border of this trough are the Sierras Madre and Nevada, and the Cascade Mountains. It is important to notice that the Columbia River breaches both the Cascades and the Coast Ranges, while the combined Sacramento and St. Joaquin Rivers also make a water gap in the Coast Ranges. This gap has been entered by the sea, and so forms a deep and sheltered harbour, the only one for a hundred miles along this unbroken coast.

In the West Indias and Central America the main feature lines have a general west-east trend, the islands being the summits of partially submerged ridges. The two isthmuses, Tehnantepee and Panama also run from east to west. Thus to the first explorers climbing the Panama divide, the Pacific was the Southero Ocean.

Regions with a temperature above 72°F may be termed hot, and the Central America and West Indian regions will be found to be hot at all seasons. A region with a temperature below 32°F, isotherm in winter should be carefully traced, and associated with such facts as the cessation of active plant life, the limiting of animal life, the need for shelter for domestic an

The close crowding of the isotherms along the western margins shows how limited is the

The close crowding of the isotherms along the western margins shows how limited is the range of oceanic influence, even where onshore winds are found, in cases where mountain ranges run parallel to and near to the coast. The low temperatures found in the eastern parts of the continent north of latitude 40° should be associated with the prevailing northwesterly winds (see Winter Climate Map) which prolong continental influence seaward.

The temperature gradient along a meridian is noticeably atceper in winter than in summer, the extreme summer temperatures to be found on the map are 88° and 32°, i. e., a range of 56°, while the extreme winter temperatures are 72° and -40°, a range of 112°. The part of Greenland lying within the Arctic circle where the lowest temperature reading is given may be termed the Cold Pole, for the cold is more intense than at the North Pole. See pp. 330-331.

For physical features of South America, see pp. 238-230.

For physical features of South America, see pp. 328-330.

Political Maps of North America, pp. 82-83.—The International Boundary between Canada and the United States is interesting to trace. The broad Appalachian upland formed the original barrier between the Puritan settlers in New England and the French immigrants along the St. Lawrence River. To-day the actual boundary is the St. Lawrence watershed, but northern Maine is still a forested wilderness, barely peopled (see Population Map). At a point above the junction of the Ottawa and St. Lawrence rivers the latter becomes the boundary, for here access from the seaboard to the river and lakes is easy. Four of the Great Lakes are shared between the two countries, and from the northwest of Lake Superior a small river and chain of lakes is followed to Lake of the Woods. This was the scene of a curious geographical mistake. It was stated that the boundary should run to the northwest of the lake and thence follow parallel 49° N. Examination of the map shows that this parallel runs from the southwest corner of ion of the map shows that this parallel runs from the southwest corner of the lake.

Alaska is interesting as the first outside territory acquired by the United States, and it should be noticed that a long strip of Alaskan seaboard intervenes between parts of the Dominion and the sea. There is here no definite natural feature line or meridian that can be followed by the boundary, which was settled with difficulty by an International Commission, after a careful

survey and mapping of a vast territory. See pp. 341-342.

Climate Map of North America (Summer), p. 84.—The map shows a belt of relatively low pressure (sometimes less than 29.8") stretching across the continent and oceans in high latitudes, but the high pressure belt (30.2" over the Pacific, 30.0" over the Atlantic) is separated into two anti-cyclones by a low pressure belt developed over the heated continental interior. This belt merges into the low pressure area over Central and South America.

The winds blow spirally out and round from the two high pressure areas.

Thus, southwesterly and westerly winds strike the British Columbian and Alaskan coasts, where there are considerable relief rains, and farther south the wind direction is northwesterly. From the southern margin of the Atlantic anti-cyclone the northeast trade winds blow toward the north equatorial "low," Over Mexico and Texas there are strong easterly winds, directed toward the continental depression, while over the Eastern United States and Eastern Canada the winds are southwesterly, and blow toward the low pressure belt of latitude 60°. All these winds are rain-bearing. It is noticeable that in the continental area of minimum pressure no condensation occurs. The exceedingly high temperature partly explains this, and the fact that the air reaching this region is largely exhausted of moisture. The marked "rain-shadow" thrown by the Cascades should be noticed, as also the relief rains of the Sierra Nevada. Conditions in the British Isles are closely comparable with those found in British Columbia in the same latitudes. See p. 333.

Climate Map of North America (Winter), p. 85.—This map shows the high pressure belt of lat. 30° weakly developed over the oceans, but expanding over the continent into a great anti-cyclone due to the intense cold of the interior. A ridge of high pressure separates two very marked low pressure areas, cyclonic in outline, the one over the North Atlantic and the other over the North Pacific. The equatorial "low" has moved southward with the declination of the sun.

declination of the sun.

Over the eastern United States there is a belt of relatively high pressure where the winds are light and variable, and this belt is frequently broken by cyclones from the Gulf which spread or travel over the region, giving to it cyclonic rains. The northeast trades cross the West Indies and Central America on their way to the equatorial low pressure belt of conventional rains which lies over South America. Only where forced upward by the contour of the land do they yield rain. The whole of the interior of the continent is dry, as are those parts of the western margin, south of Los Angeles, with directly off-shore winds.

A comparison of the two maps will bring out the following points. Along the west coast there is a belt extending as far south as Cape Blanco with abundant rains at all seasons, farther there is a belt extending as far south as Cape Blanco with abundant rains at all seasons, farther aouth (to San Francisco) a region with dry summer and heavy winter rains, flowed by a third belt (to Los Angeles) with light winter rains only, and finally by a belt that is dry at all seasons. The interior basins and plateaus of the United States are always dry, as is the region round about the Arctic Ocean. The West Indies, eastern United States, and Atlantic margins of Canada have rain at all seasons, while the continental interior and Mexico have summer rains. The waters frozen in winter should be carefully noted and compared with the map showing lines of communication. Comparison with the temperature map will help to explain why these waters are frozen, and it should be remembered that fresh water freezes more readily than salt, enclosed water than open, shallow water than deep.

Vegetation Map of North America, p. 86.—Before studying the vegetation map, one should clearly realize the two following facts. In the case of certain plant associations the transition from one to another is so gradual that no hard and fast line can be drawn between them. The northern coniferous forest, for example, passes imperceptibly into the Barren Grounds or tundras, the trees simply thinning out, and becoming more and more stunted and dwarfed. Southward, too, there is no definite boundary between coniferous and deciduous, or between deciduous and evergreen trees. Here, however, the fact that the different varieties of trees exist side by side can be shown by mingling patches of the particular tints which represent them. The second point is that, unless the map is to become unduly complicated, a single name, e. g. coniferous forest, must embrace woodlands which differ very much in aspect. Thus the drenching rains on the Pacific slopes produce there a luxuriant tree growth which includes such giants as the Douglas fir and California redwood; while the pines, firs, and spruces of the interior ranges, and those of Mexico and Central America are of ordinary stature.

Both January and July isotherms may be examined in connection with the limits of the tundra, where a constantly frozen subsoil inhibits tree growth. In Labrador there is a low summer temperature (under 48°F); round Hudson Bay the summer is warmer but the winter is much more severe (40° below freezing point), while farther west, with an even hotter summer, the winters are again more severe, and the precipitation lower.

The eastward extension of the rich prairies in the Illinois region calls for some further explanation. Factors that have probably helped the grasses to occupy the inter-stream areas at the expense of trees are the loose nature of the soil, the strong and bitter northwest winds, and the periodical fires started by the Indians. Southward the mild winters (over 40° F.), coupled with the ever-abundant rainfall, make a definite resting season unnecessary and many of the trees and undershrubs are evergreen. In southern Florida, where the winter temperature is 64° F., the evergreen trees have a tropical profusion.

The temperate grasslands vary greatly in the luxuriance and close growth of the grasses and other herbs, becoming gradually poorer from east to west, in which direction the rainfall diminishes, and from north to south, where, although the rainfall is the same, the intensity of insolation increases, so that evaporation is more rapid.

A large proportion of the broad-leaved forest area of the eastern lowlands has been cleared for agriculture. The upland forests of the Appalachians, however, still form a compact unbroken belt, for here only the floors of the broad longitudinal valleys have been transformed into arable land. Of the Cordilleran and Northern forests only the fringes have been cleared, into arable land. Of the Cordilleran and Northern forests only the fringes have been cleared, into arable land.

broken belt, for here only the noors of the broad longitudinal valleys have been cleared, and arable land. Of the Cordilleran and Northern forests only the fringes have been cleared, and wherever they are readily accessible, especially where water transport and water power are available, lumbering is carried on upon a large scale; for example, along the Coast Rangea of the West and in the St. Lawrence basin. See p. 333.

Economic Map of North America, p. 87.—The areas marked unproductive include the snowfields, tundra, high mountain belts, and tree deserts; but the remaining productive areas differ widely in value. A comparative estimate of their value is obtained by noting the relative density of the symbols denoting agricultural and animal products, but this estimate is only a rough one owing to the principle upon which the map has been constructed. The importance of the products mapped is measured by the present value of the output, and not by possibilities of future development. The productive capacity of the arid regions is being increased in two ways: first by the spread of improved methods of "dry-farming," which is extending the wheat area westward, and secondly the expenditure of large capital sums (chiefly by the United States Government) upon irrigation schemes. Since, too, for pro-United States Government) upon irrigation schemes. Since, too, for production on a large scale easy access to markets is all-important, many fertile tracts lie idle until the coming of the railroads; the new Grand Trunk Pacific Railway in Canada, for example, has opened up fresh farming areas which only need the influx of capital and labour to become productive.

The climate demands of particular crops are well seen if a study is made of the sequence: wheat, maize, cotton, rice, sugar, cacao, the principal changes being the increase of summer heat, the longer duration of hot weather, the increase of rainfall and its more uniform distribution through the year. Of the crops named all but cacao are independent of the winter climate.

The best wheat districts are found in the belt of open grassland lying near

to the northern and eastern forests, a belt which includes the fields of Sas-katchewan, Manitoba, the Dakotas, Minnesota, Nebraska, and Kansas. Next in importance are the valleys of the Pacific border with plentiful

Next in importance are the valleys of the Pacific Dorder with plentitul winter rains, yet dry summers.

The chief demand of tobacco is for a peculiarly rich soil, and it is found over a wide range of latitude. The Virginia tobaccos are grown in the middle portion of the Atlantic Plain, and in the lower Ohio basin, which includes the famous blue-grass region of Kentucky. The large crop of the lower Connecticut Valley is not sent abroad. The tobaccos of the tropical area are used in cigar manufacture, the best Havana being obtained only from the

The fruit-growing regions are of very diverse character. They include the apple orchards of Nova Scotia and New Brunswick, the oranges and pine-apples of sub-tropical Florida, the bananas of the West Indies and Central America, and the stone fruit ripening in the summer-drought regions of California, where, too, the raisins, almonds, vines, and olives emphasize the "Mediterranean" character. In southern British Columbia and Washington the deep sheltered valleys are so dry that fruit culture under irrigation is carried on, while the stone fruits and vines of the Lake Peninsula are made possible by the influence of the Great Lakes, which prevent any sudden or rapid variations in temperature.

Cattle are reared in the greatest numbers on the rich prairies, but they are found also on the large ranches of the far West, and in eastern Canada where there is a notable cheese industry. Sheep do best in the semi-arid regions, and are most numerous in Montana. The feeding of maize and of cotton-seed cake to stock should be noted, and, in connection with the great industrial centres, the growth of market gardening and of dairying in the neighbouring rural districts.

Turning to the minerals, the precious metals and copper are seen to be associated generally with the Cordillera, but the copper of Lake Superior is of first importance, as is also the iron of the same locality.

The relation of the coal fields to the same locality.

The relation of the coal fields to the sea, to the Great Lakes, to the iron workings, and to the railways should be noted. Where they occur in proximity to the mining centres of the West, as at Denver and Butte, refining and smelting are of importance. The absence of coal in California is compensated for by the water-power (transformed into electricity) which the permital corrects from the Sierra Neyada supply and also by the oil wells. ennial torrents from the Sierra Nevada supply, and also by the oil wells, petroleum being very widely used both in industry and in transport. In view of the growing importance of oil as a fuel the petroleum wells of Mexico should be noted. See p. 333.

Population Map of North America, p. 88.—This map shows that there still remains on our continent vast regions entirely uninhabited. They include the Barren Lands and the greater part of the forests of Canada and Alaska, together with the arid basins of the western United States. In the United States the majority of the people still live to the east of meridian 100°, and almost half of the total population is to be found within an area bounded by the Mississippi and Ohio rivers, the Great Lakes, and the Atlantic Ocean. Here there are facilities unrivalled elsewhere for the development of industry and commerce, and hence thirty-five out of a total of fifty towns with over 100,000 inhabitants are situated within this area. Just across the boundary the population of Canada is similarly concentrated in the Lake Peninsula and along the lower Ottawa and St. Lawrence rivers. But the recent growth of population here is not to be compared with that farther west.

Economic Map of Mexico, p. 89.—Cotton, rice, sugar cane, cacao, and tropical fruits are grown on the marginal lowlands; coffee and tobacco at a greater altitude; and wheat, maize, and temperate fruits where irrigation makes their cultivation possible on the semi-arid plateau. Hemp is grown in Yucatan while in the extreme south the forests yield mahogany and rubber. Silver, gold, and other minerals are mined. Note the oil-fields near Tampico. See pp. 333-334.

Political Map of Mexico, pp. 90-91.—Mexico is a high table-land, buttressed on both sides by lofty mountain ranges and edged by low plains on both seas. The table-land goes down to the coast plains by a series of terraces. The south end of it is crossed by a zigzag line of volcanoes, which are among the loftiest in the world. Mexico is deficient in navigable waterways. The Rio Grande forms the natural boundary between Mexico and the United States from El Paso to the sea. The distribution of the rowns should be studied in conjunction with the Economic Map. See p. 334.

Economic Map of the West Indies, p. 92.—Cuba, the most important island of the West Indies, is chiefly devoted to the growing of sugar cane and tobacco. Jamaica (British) and Porto Rico (United States) closely resemble each other in size, population, and products. In the island of Haiti coffee, cocoa, cotton, and tobacco are cultivated. Similar products characterize the remaining islands of the group. See p. 327.

Political Map of the West Indies, p. 93.—The Greater Antilles (Cuba, Jamaica, Haiti, and Porto Rico) are the remains of a folded mountain system in which the parallel chains run from west to east, a direction which is followed by some of the chains in Central America. The Lesser Antilles, a

chain of volcanic islands, make a loop between Porto Rico and Trinidad. The aborigines have almost disappeared on these islands, their place being taken by negroes and Europeans. The inset map of *Haiti* and the *Dominican Republic* gives a clear idea of the districts in which the United States troops have played an important part within recent years. Note the position of *Havana*, Santiago de Cuba, Port au Prince, Santo Domingo, San Juan, and the Virgin Islands. See p. 327.

Political Maps of Porto Rico and Cuba, pp. 94-95.—These two maps are on a larger scale, and should be compared with the Economic Map. For description see above.

Standard Time Map of Canada, p. 96.—In Canada six standards of time have been adopted since 1883; four of them coincide with the standards adopted by the United States, namely Eastern, Central, Mountain, and Pacific, corresponding severally to the mean local times of the 75th, 90th, 105th, and 120th meridians west from Greenwich, and being therefore five, six, seven, and eight hours slower than Greenwich time. There is another standard for the eastern provinces of Canada (four hours slower than Greenwich time) known as Atlantic; while on the extreme west there is the Alaska time (nine hours slower than Greenwich time). Towns and cities near the dividing lines adopt which of the two lines is the more suitable to railway or local requirements. or local requirements.

Political Maps of Canadian Provinces, pp. 97-112.-For description see under Canada, pp. 334-335.

Political Map of Central America, p. 113.—Central America is on the whole a mountainous region, the greatest altitudes being reached near the Pacific coast. The vegetation consists of forests of the equatorial types in the hot and wet regions, rich savannas on the uplands, and temperate forests on the higher mountain regions. The valleys and plains are very fertile. Note the Canal Zone across the isthmus of Panama. See pp. 326-327.

Map of Republic of Panama, pp. 114-115.—The Republic of Panama is divided into seven provinces, their boundaries representing those of old administrative districts; Panama, Colón, Cocle, Veraguas, Chiriqui, and Bocas del Toro. Along both the northern and southern shores are many inlets affording good anchorage for vessels engaged in coastwise trade. There are no lakes in Panama except the artificial ones in the Canal Zone. Except for the country the description of the country in the cou cept for a few swampy areas along the coasts the drainage of the country is excellent. About 150 streams flow to the Caribbean and more than 300 to the Pacific. The Chagres River, now known to all who have followed the building of the canal, has its origin in the wilderness of southeastern Panama,

building of the canal, has its origin in the wilderness of southeastern Panama, near the Pacific coast.

Two-thirds of the area of Panama is occupied by forests of valuable wood. The Atlantic side of the water-parting and the Darien region are the most lensely covered portions of the country. The jungle on the Atlantic slope is so nearly impenetrable that enormous capital will be required to clear the land, a condition which has greatly retarded the development of the lumber industry. On the Pacific side, where the rainfall and humidity are less, the forest is more open and the timber growth smaller. Here are large districts suitable for fruit culture, wheat growing, and cattle raising. There are many localities which are suitable for bananas; others that seem to be specially adanted for tobacco culture; and others where cocoanut plantations cially adapted for tobacco culture; and others where cocoanut plantations would thrive. The present population is sparse, the roads and tracks poor, settlements scattered, while the majority of the people are lacking in energy and interest. See p. 327.

Map of the United States Canal Zone, pp. 116-117.—The Panama Canal does not cross the Isthmus from east to west, but as will be seen on the map, its general direction is from northwest to southeast, the Pacific entrance near Panama being about 22½ miles east of the Atlantic entrance near Colón. The Isthmus at the Canal Zone is about 40 miles wide and the entire length of the Canal, from deep water in the Atlantic to deep water in the Pacific, is about 50 miles. Of this length about 15 miles are at sealevel, seven miles at the Colón end and eight at the Panama end. The remainder consists of two elevated reaches, the longer of which—that between Gatun and Pedro Miguel locks—is about 32 miles in length and 85 feet above sea-level, while the shorter—between Pedro Miguel and Miraflores—is about two miles long and about 55 feet above sea-level. From Gatun for a distance of 24 miles the Canal follows roughly the channel of the Chagres River, and the greater part of this portion has been converted into Gatun Lake. The points of deepest excavation in the Canal are in Gaillard Cut (Culebra Cut), between Gold and Contractor's Hills.

There are six double locks in the Canal; three pairs in flight at Gatun, with a combined lift of 85 feet; one pair at Pedro Miguel, with a lift of 30½ feet; and two pairs at Miraflores, with a combined lift of 54¾ feet at mean tide. The usable dimensions of all are the same—a length of 1,000 feet and width of 110 feet. Each lock is a chamber, with walls and floor of concrete, and mitering gates at each end. See p. 340.

Maps, pp. 118-235.—The Synopses of the respective countries will be found a great help to an understanding of these maps. For various phrases of the geography of the *United States*, see above notes on the Physical, Political, Climate, Vegetation, Population, and Economic Maps of North

Transcontinental Automobile Tours.—The principal automobile routes are indicated on the various State maps. For an official description of Transcontinental Automobile Tours, see p. 240.

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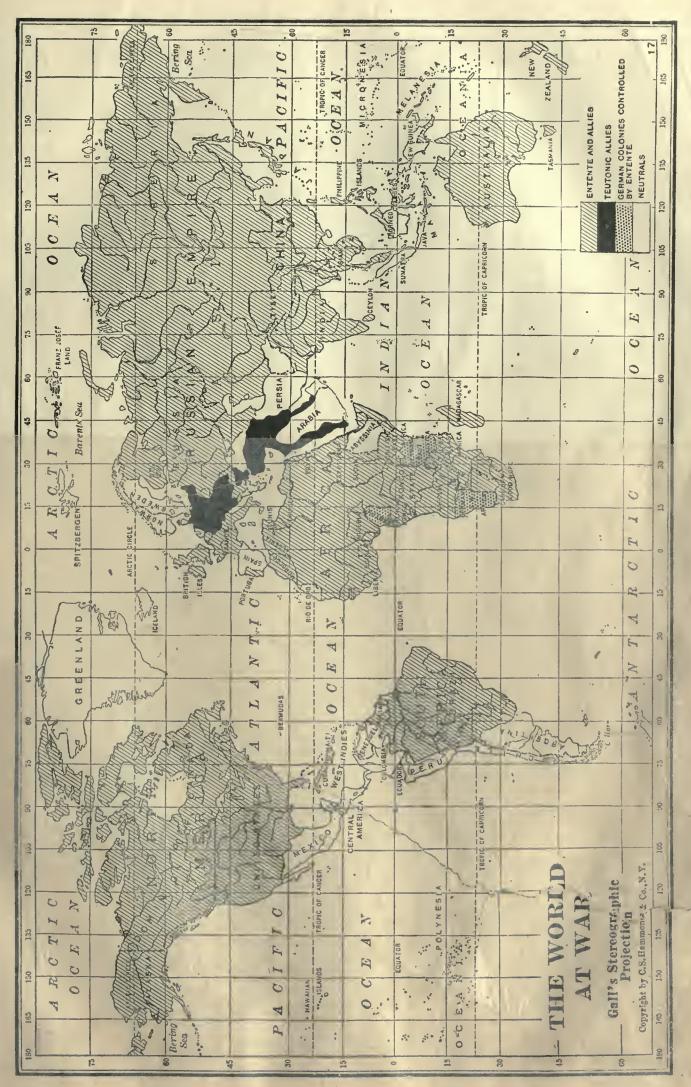
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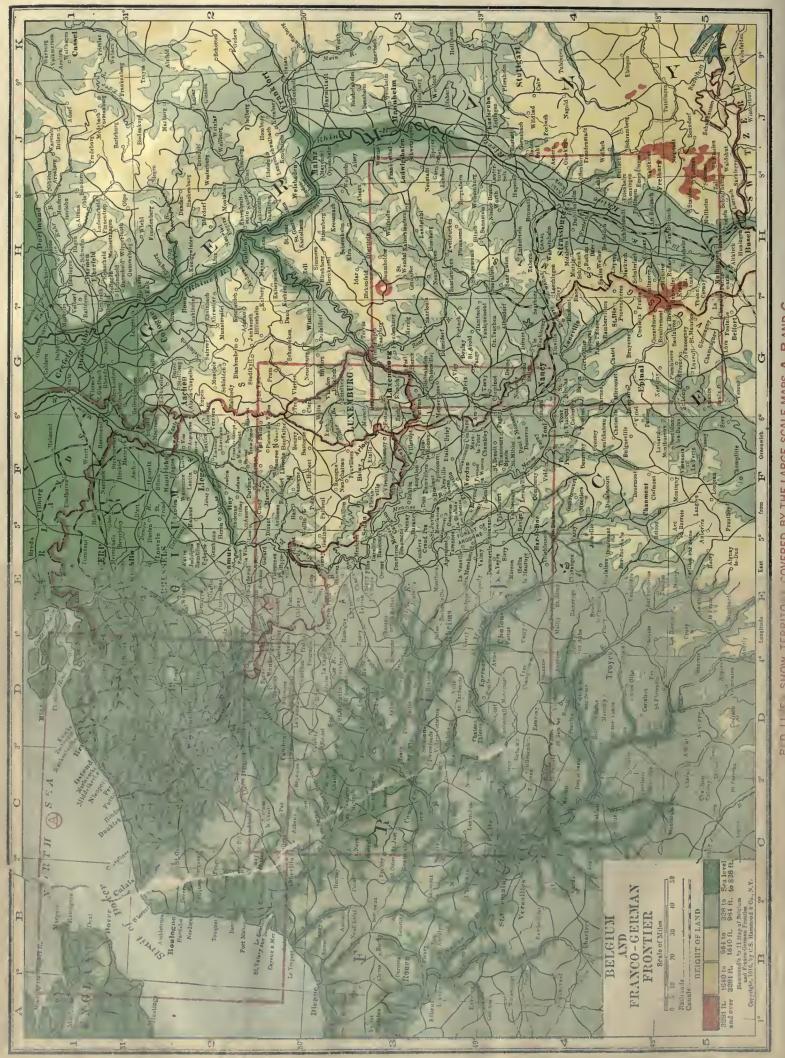
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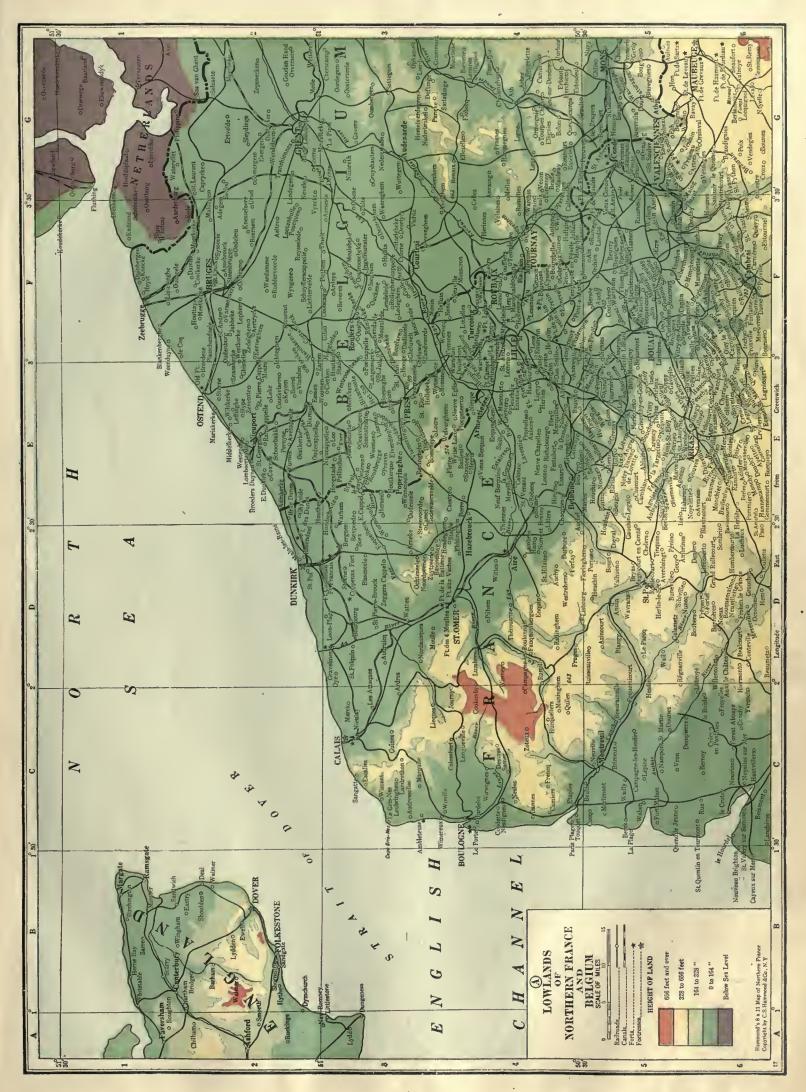
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OF THE

WESTERN FRONT

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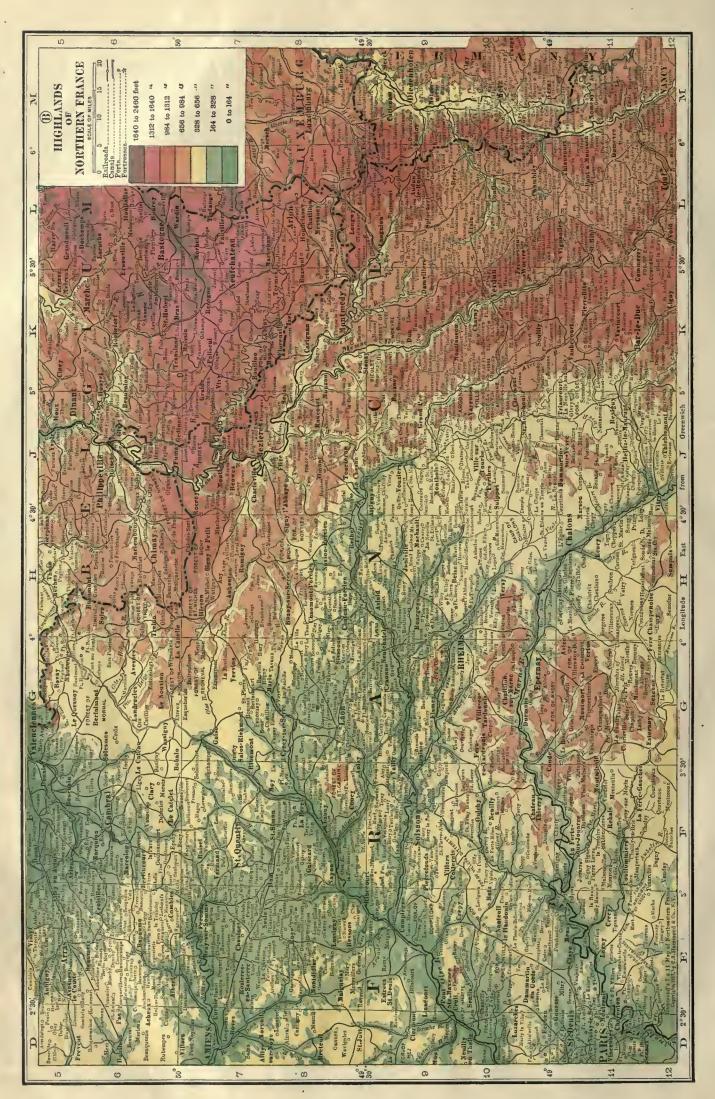
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Dives, F Dixmude, B	E 8	Epoye, l Eppelbor	n, G N 9	Fisme Flabas	s, F G 9
Dizy, F Dizy, F	H 8	Eppenbru Eppes, I	inn, G. ,P10 FG 8	Flainv Flamio	ral, FM12 erge, BL 6
Doehamps, B Doische, B	L 5	F	uvage,	Flavig Flavig	my, FH11 my, FM12
Deyhze, B. Dianne, G. Dickebusch, B. Diedenhofen, G. Diedlingen, G. Diedlingen, G. Diedlingen, G. Dieue, F. Dienze, G. Dieval, F. Differdingen, L. Dillingen, G. Dippach, L. Dirmingen, G. Dives, F. Dixmude, B. Dizy, F. Dochamps, B. Dolsche, B. Dolleren, G. Dombastle, F. Dombastle, F.	N15	Erbaut, Erches,	F. E 4 n, F. F 4 n, G. O15 sgt, F G 6 n, G P12 F. F 6 F. F 6 F 111 F G10 F F 10 F F 10 F F 10 F F 10 F F 6 F F 10 F F 6 F F 6 F F 7 F F 6 F F 6 F F 7 F F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7	Flavy, Fleign	m-Tardenois,
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F	.M14	Erneuvil	e, BL 6	Flevil	e, FJ 9
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Dommartin-sur- Yevre, F	. J11	Erqueingh	ies, B H 5	Flirey	, F
Dompcevrin, F.	Kii	Erstein.	GP13	Flober	eq, B G 4
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Domptail, F	.N13	Esbly, F		Foame	eix, FL10
Domremy, F	K12	Escaudai Escaudo	n, F F 5	Folies	FE 7
Donchery, F	J 8	Escautpo	nt, F G 5	Fonta	ine, FE 6
Don Seclin, F.	E 4	Eschenwe Escles 1	eiler, G. O16 M14	Fonta	ne, FH10
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Dossenheim, G Donai, F	O11	Esqueher Esquelbe	ies, FG 7	Fonte:	nay Tresigny,
Doual, F Douchy, F	F 5	Essaro, Essey, F	F E 4	Fonter	noy, FF 9
Douchy, F Doulcon, F	F 5	Essey, F Essegney	FM12	Fonter	ne, F F 6 nay Tresigny,
Doullens, F Dour, B.	.D 6	Essigny, Essises.	F F 7	teau	, F M14
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Dravegny, F Drulingen, G	G10 O11	F Estreux,	F G 5	Forges Forrie	s, FK 9
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Duvy, F Duzey, F	.E10	Eth, F. Ethe, B.		Ft. B	erru, FH 9 icetre, FD11
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Ecafaut Farm,	F.F 9	Etreux, Etrun, F.	FG 6	Ft. Ro	ourdian. F. F 6 oussois, F.G 5
Ebly, B	J 8	Ettenhein Etueffont	ES, B. H 4 nes, B. H 5 nes, B. H 5 leem, F. E 4 F. F 5 G. P13 B. G 2 F. E 6 I. B. G 4 I. B. G 4 I. B. G 4 I. B. G 5 I. L 8 E11 I. C 5 I. C 5 I. C 7 I. C 8 I. C 8 I. C 9 I	Ft. B	oise Bourrus. K10 ose. GP12 oiseign F. F. 6 oussois, F. G. 5 ouvines, F. F. 4 rimont, F. G. 9

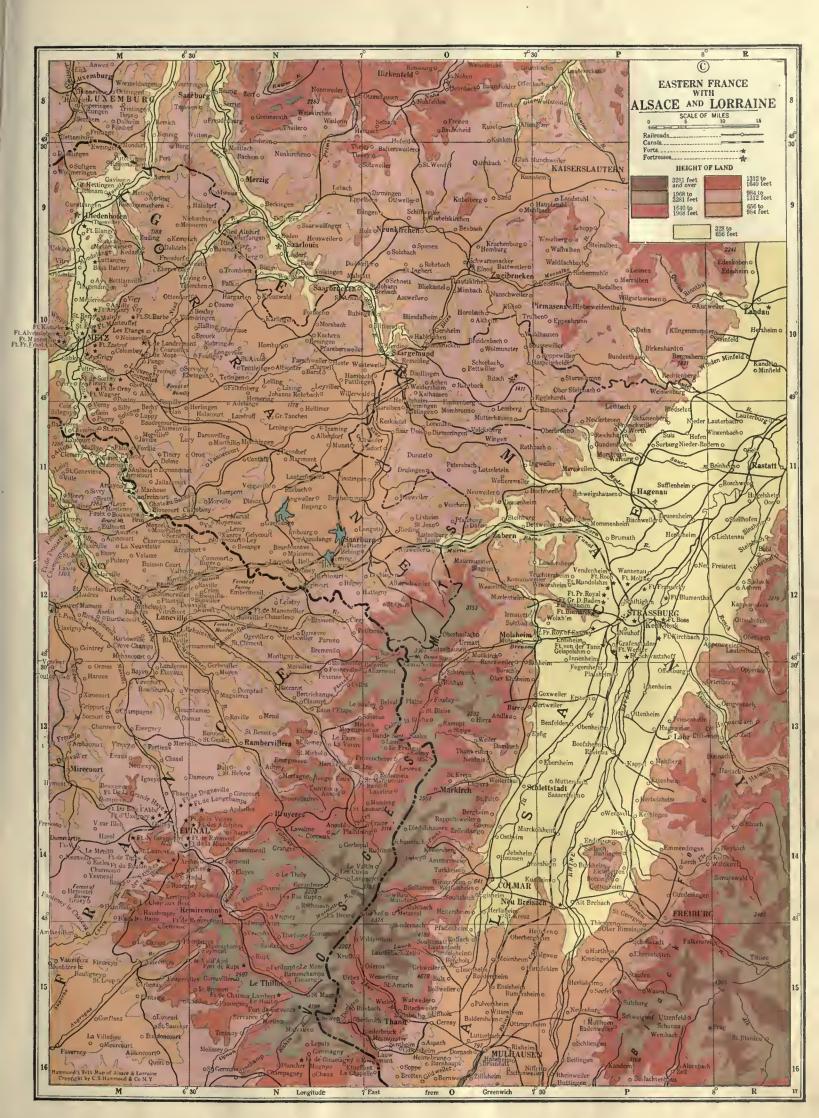
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Ellignies,	B.	G	4	H
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Englos, F Ennetiere	s. F	E	4	I
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Epinoy, I	F	<u>F</u>	6	F
Eppelborn	, G.	\tilde{N}	9	F
Eppes, F.	nn, '	G	8	. <u>F</u>
F. Sau	vage	н	6	· F
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Ercheu, I Erezee, B	?	E K	8	F
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Erstein, (Ertvelde,	G B	\dots P	13	F
Ervillers,	F.	E	6	F
Esbly, F.	Ė	Ĕ	11	F
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Essey, F.		<u>L</u>	11	F F F
Essegney,	F.	M	13	F
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Estaireso, Esternay,	F.	<u>G</u>	11	F
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Staing, F		F	5	F
Etalle, B.		L	8	F
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Stavigny, Sterpigny,	F.	E	5	F
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RN FRONT
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Ewringen, GM 9
Fagnieres, FH11 Fains, FK11
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Falk, GN10 Falkenberg, G. N10 Falkensteig, G. P.15
Falmagne, BJ 6
Famars, FG 5
Fampoux, F E 5 Faremoutiers, F. E11 Farschweiler, G. N10
Farschweiler, GN10 Fancogney, FN15
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FH11
Fere Champenoise, F
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Fey-en-Haye, F. L11 Ficheux, F E 5
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Flaurel, F
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Flourings E F 0
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Flines les Raches,
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Flirey, F J 8 Flobecq, B G 4
Florenville, B J 5 Florenville, B K 8
Floringhem, F. D 5
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Fontenay Tresigny, F. E12 Fontenoy, F. E9 Fontenoy, B. G4 Fontenoy, F. M12 Fontenoy le Chateau, F. M14 Fontoy, G. M 9 Forbach, G. N10 Forest Abbaye, F. C6 Foreste, F. F7
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teau, FM14
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Ft. Argancy, G. M10
GM10 Ft. Argancy, GM10 Ft. Arry, GM10 Ft. Aubervilliers, FE11
Ft. Aux Vaches.
Ft. Ayvelles, F. I 7
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Pt. Aux Vaches, F
Ft. Blumenthal,
Ft. Boise Bourrus.
Ft. Boise Bourrus. Ft. Soise Bourrus. Ft. Bose, GP12 Ft. Rourdiau, F. F 6
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Ft. Bruyeres, F.G 8	
Ft. Bruyeres, F.G 8 Ft. Butte Pn., F.D11 Ft. Carnot, FE 4	
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Ft. Cerfontaine.	
F H 5 Ft. Champigny,	
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Lambert, F N15	
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Ft. de Flines, F.G 4	
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Ft. de Girancourt,	
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Ft. de Grevaux	
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Ft. de Haumont,	
Ft. de la Batterie,	
Ft. De la Grande	
Haye, F M14	
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Ft. de la Voivre,	
Ft. del'Est. FD11	
Ft. De la Grande Haye, F M14 Ft. de la Mouche, F N14 Ft. de Landremont, G M10 Ft. de la Voivre, F N14 Ft. del'Est, F D11 Ft. de Leveaux, F G 5 Ft. de Longchamps, F N14 Ft. de Manonviller,	-
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Ft. de Maulde, F.F 5	
Ft. de Orny, G.M10	
Ft. de Raziniont,	
Ft. de Remiremont,	-
Fort de Rupt, F.N15	-
Ft. des Adelphes,	
Ft. des Arches.	- 3
FN14	
Ft. des Dunes, F.E 2	-
Ft. de Seclin, F.F 4 Fort de Servance.	
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FD 3 Ft. des Frisches, FM14 Ft. de Sorbey.	:
GM10 Ft. de Tigna, F.M14 Ft. Doingermain,	:
Ft. Doingermain, F	
Ft. Domont, F. D10	
Ft. d'Orny, G, M10 Ft. Donaumont.	
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Et du Raulon	
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Ft. d'Uxegnev.	-
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Ft. Genicourt, F.L10 Ft. Gironville,	į
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G P12	
Ft. Guentrangen, G	1
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Ft. Hautmont, F.G 5 Ft. Htes Bruyeres.	
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Ft. Illangen, G.M 9 Ft. Ivry, FD11	
Ft. Jouy, FL11]
Ft. Kaiserin, G.M10 Ft. Kameke, G.M10]
Ft. Kirchbach, G.P12	j
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Ft. Landrecourt,	1
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GM10 Ft. Laniscourt, FF 8	I
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F M14 Ft. Leveau, F. G 5 Ft. Liez, F F 8
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Ft. Lodiringen, GM10
Ft. Loddringen, GM10 Ft. Lucey, FL12 Ft. Macdonald, FF 4
F
Fort Mahon, F. C 5 Ft. Mannstein, GM10
G
Ft. Marre, FK10 Ft. Mayot, FF 8
Ft. Moltke, GP12 Ft. Mont, GM10
F
Ft. Montmorency,
Ft. Montrore, F. Old Ft. Montrouge, FD11 Ft. Montrouge, FD11 Ft. Moulainvilles, FL10
Ft. Moulainvilles,
Pr. Minngolsull.
GP12
Ft. Nogent
Ft. Noisy, FE11
Ft. Pierquin, F. E 4
Ft. Pont St.
Ft. Pr. Fried.
Carl, GM10
Ft. Pr. Koy. of
Ft. Regret, FK10
Ft. Nogent, F. D11 Ft. Nogent PAbbesse, F. H10 Ft. Noisy, F. E11 Ft. Pierquin, F. E4 Ft. Pompelle, F. H10 Ft. Pont St. Vincent, F. M12 Ft. Pr. Fried. Carl, G. M10 Ft. Pr. Royal, G.P12 Ft. Pr. Koy. of Saxony, G. P12 Ft. Regret, F. K10 Ft. Rochambeau, F. G. St. Romainville, F. D11 Ft. Roon, G. P12
F
Ft. Roon, G P12
Ft. Rosny, FE11
Ft. St. Barbe, G.M10
Ft. St. Eloy, G.M10
FK10 Ft. Sartelles, F.K10
rt. partenes, r.mio
rt. Schwartzhon,
G
Ft. Sommy, G. M10 Ft. Sorbey, G. M10 Ft. Stains, F. D11 Ft. Sucy, F. E11 Ft. Tavanne, F. K10 Ft. Thierry, F. G 9 Ft. Vaujours, F. E11 Ft. Vaux, F. K10 Ft. Vendoul, F. F. 8 Ft. Villey, F. L12 Ft. Villers, F. E11 Ft. Von der Tann, G
Ft. Sucy, FE11
Ft. Tavanne, F.K10 Ft. Thierry, F.G 9
Ft. Vaujours, F. E11 Ft. Vaux, F. K10
Ft. Vendoul, F. F 8
Ft. Villey, FL12 Ft. Villiers, FE11
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Furdenheim, GP12	Grunont, B E &
Furnes, B E 2	Gruson, FF
Galametz, F D 5	Gueblange, G N1
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Garrepuis, FE 8 Gatelet, FE 7	Guesnain, F F
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Gavrelle, F E 5	Guise, FG
Gedinne, BJ 6	Guivry, FF
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Gerbepal, F N14	BL
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Gernay, G Uls Gerouville, B K 8	Hagen, LL
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Gits, BF 3	Hancourt, FF
Givenchy-en-	Hannapes, F II
Givet, F J 6	Hannogne, F H
Givonne, FK / Givry, FJ11 Gizy, FG 8	Harcigny, FH
Glan Munchweiler.	Hardelot, FC Hargarten, GN1
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Le Hourdel, FC 6
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Maronvillers, F G 6 Maronvillers, F. H10	1
Marquilles, F E 4	ľ
Marquion, F F 6	I I
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Marsal, GN11	1
Marson, FJ11 Martelange, B., L 7	Î
Marteville, F F 7 Marthill, G N11	Î
Marville, F K 9 Masbourg, B K 6	,]
Masmunster, G. O15 Matigny, F F 7	1
Matougues, FHll Maubert-Fontne,	1
Maubenge, FG 5]
Maucourt, FK 9]
Maurmunster, G.O12	1
Maxenchamp, F. N15	1
May-en-Multien, F E10	1
Mazerulles, F]
Mazerulles, F. M12 Meaulte, F E 7	1
Mecrin Pont, F. L11	1
Meetkerke, B F 2	1
Meienheim, GO15 Meirelbeke, BG 3	Î
Meligny, FK12 Melissev, FN15]
Melle, BG 2 Melles, BG 4	Ī
Mellier, BL 7 Melreux, BK 5	1
Menevillers, FE 8 Menil, FN13	1
Menil la Horgne,]
Menil la Tour,]
Menil Lepinos,]
Menin, B F 3 Mennessis, F F 8	3
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Mercatel, F E 6 Merckem, B E 3]
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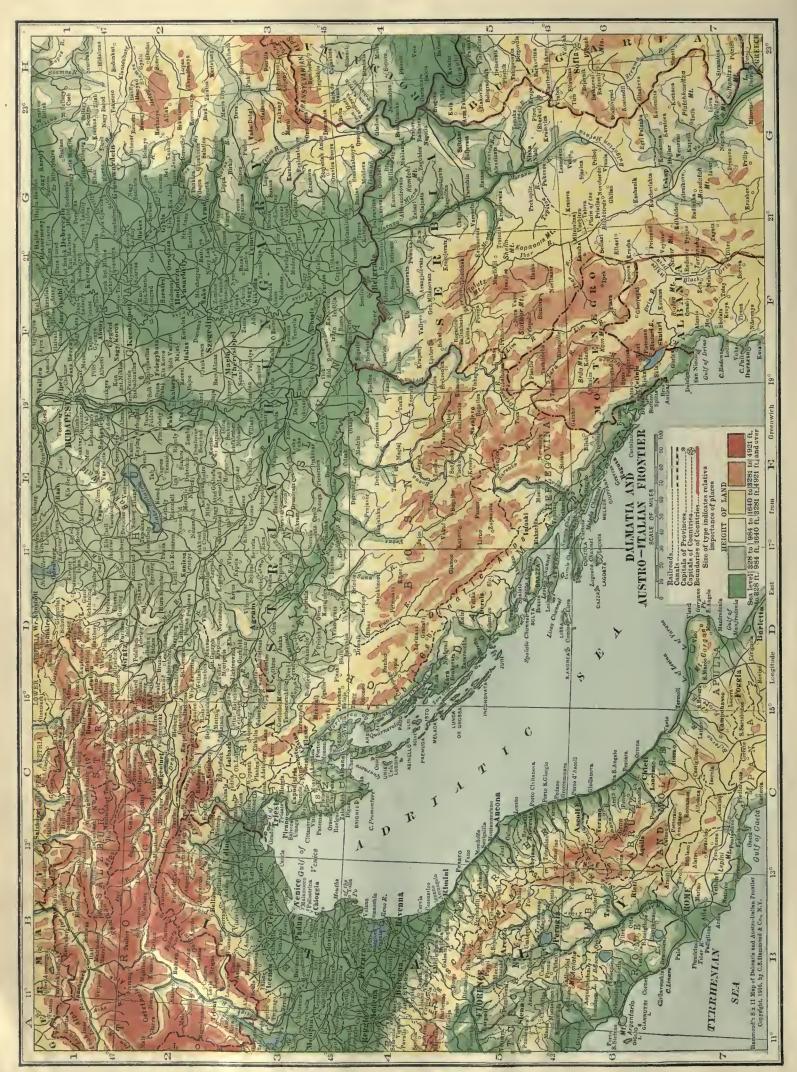
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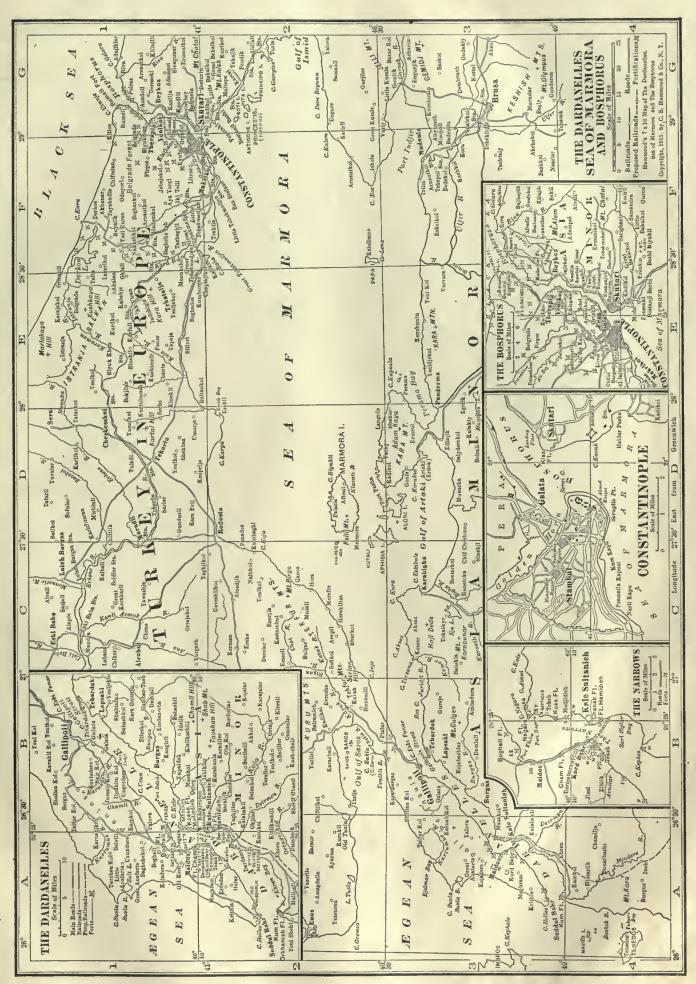
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Pondrome, BK 6	Remelfing, GO10 Remich, L. M. 8
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Pont Faverger F.H. 9	Remy F 013
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B. F 2 Plateau de Tailles, B. L 6 Platsheim G. P13 Pleurs, F. G12 Plivot, F. H10 Ploegsteert, B. E 4 Plombieres, F. N15 Ployart, F. G9 Poelcappelle, B. F 3 Poeuilly, F. F 7 Pogny, F. J11 Poilcourt, F. H9 Poilly, F. G10 Poincy, F. E11 Poix, B. K 6 Poix, F. G 6 Poix, F. G 6 Poix, F. G 6 Poix, F. G 6 Poix, F. G 6 Pommer, F. H9 Pommier, F. E 6 Pompey, F. M11 Pondrome, B. K 6 Pont, F. J 9 Pommier, F. E 6 Pompey, F. M11 Pondrome, B. K 6 Pont, F. L 9 Ponta-Marcq, F. F 5 Pont a Mousson, F. L11 Pont-Arcy, F. G 9 Ponta-Marcq, F. F 5 Pont a Mousson, F. L11 Pont-Arcy, F. G 9 Pontarme, F. E 10 Pont-a-Vendin, F. F 5 Pont Faverger, F. H 9 Pont Novelles, F. D 7 Pontoy, G. M10 Pont St. Mard, F. F 9 Port Ste, Maxence, F. E 9	Raon f Etape, F. N13 Rappoltsweller, G. O14 Raray, F. E 9 Kasey, F. M14 Rastatt, G. R11 Raucourt, F. J8 Raucourt, F. M11 Ravenel, F. E 8 Raves, F. O13 Raville, F. N12 Rebais, F. F11 Rechicourt, G. N12 Rechingen, L. M 8 Rechtenberg, G. P10 Recogne, B. K 7 Recourt, F. K10 Redange, L. T, Redingen, F. L 8 Redu, B. K 6 Régnauville, F. D 5 Regnieville, F. L11 Rehainviller, F. N12 Rehon, F. L 8 Reichlauge, L. L 7 Reichshafen, G. P10 Remagne, B. K 6 Remacourt, F. B 5 Regnieville, F. L11 Rehainviller, F. N12 Rehon, F. L 8 Reichlauge, L. L 7 Reichshafen, G. P10 Remagne, B. K 6 Remelfing, G. O10 Remagne, B. K 6 Remelfing, G. O10 Remich, L. M 8 Remelfing, G. O10 Remich, L. M 8 Remilly, G. M11 Remine, C. N12 Remirecourt, F. D 9 Remiremont, F. D 9 Remiremont, F. N14 Remomerix, F. O13 Remy, F. E 5 Remy, F. E 5 Remy, F. E 9 Renaix, B. G 4 Renneval, F. H 7 Renneville, F. H 8
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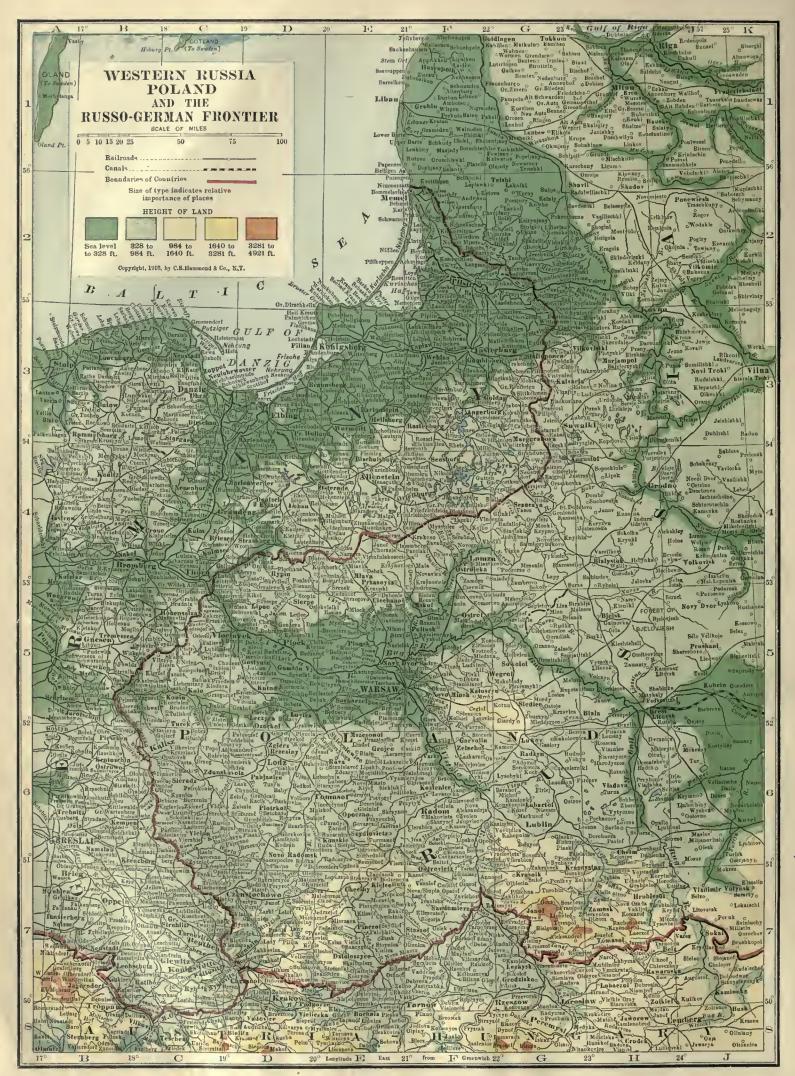
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Ruisseauville, F. Ruitz, F. Kulles, B. Rully, F. Rumaucourt, F. Rumaucourt, F.	F 5
Rumbeke, B	17 0
Rumersheim, G.	F 5
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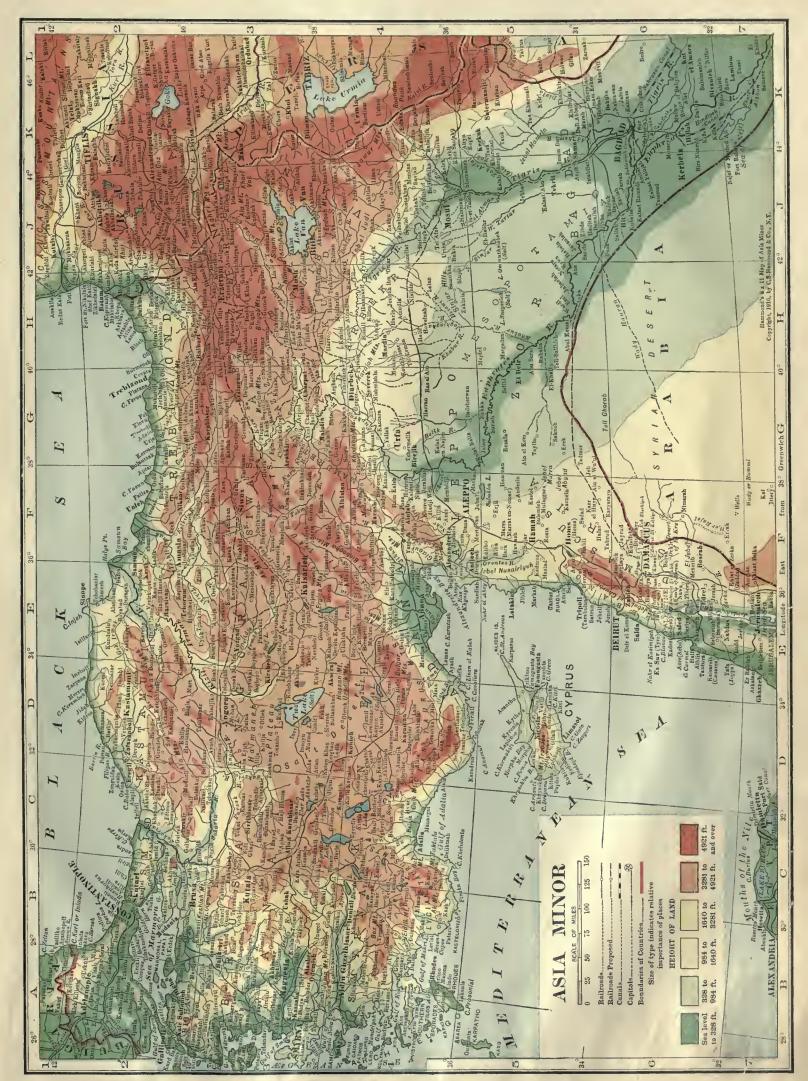




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Rumilly, F D 4 Rumont, F K11	St. Maurice, F. N15 St. Medard, B K 7	Seicheprey, F L11 Selbach, G 0 8	Stave, B 5 Stavele, B E 3 Steenbrugge, B F 2	Trassem, G, N 8 Trelon, F H 6	Viels Maisons, F.F11 Vienne-la-Ville,	Wasen, G
Rupt, FN15	St. Medard, BK 7 St. Medard, FE 8 St. Menehould, F. J10	Seloignes, BH 6 Selz, GR11 Selzaete, BG 2	Steene B	Trelon, F H 6 Treloup, F G10 Tremblecourt, F. L11	FJ10	Wasselnheim, G. 012
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Saar Union, GOH Saarwellingen, G.N 9 Saasenheim, GP14	St. Pierre, FF 9 St. Pierre, FG 7	Senon, FL 9	Steinburg, GOll Steinfeld, GR10 Steinfort, LL 8 Stenay, F	Trondes, F. L12 Tronville, F. L10 Tronsly, F. L10 Trosly, F. F 8 Troussey, F. L12 Troyon, F. G 9 Troyon, F. K10	Ville, FK 9 Ville, FM11 Ville, and Tardenois	Wavrin, F E 4
Sablon, G.	St. Pierre, F G 7 St. Pierre, F H 9 St. Pierre, F H 1 St. Pierre, F L 9 St. Pierre-Aigle,	Senon, F L 9 Senones, F	Stollhofen, G K11 Stonne, F J 8	Troyon, F G 9 Troyon, F K10	Ville-en-Tardenois, F	M/mtdorchaim (1 ())0
Sachy, F. K 8 Sacy, F. G10 Sailly, F. E 5 Sailly, F. E 6 Sailly, F. E 6 Sailly, F. F 5		Senne F J 9 Septmonts, F F 9 Septsarges, F K 9 Seraincourt, F H 8	Stollhofen, G K11 Stonne, F J 8 Stosswihr, G O14 Straimont, B K 7	Troyon, FK10 Truchtersheim, G.P12 Trulben, GP10	Villeneuve, F E12	Weiler, G013 Weiler, G015 Weilerthal, G013 Weiselbach, G08
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St. Agnont, F. L11 St. Amand, F. D 6	St. Prix, FG11 St. Python, FG 6	Servance, F	Sulz, G	Urbes, GN15 Urmatt, G012 Ursel, B F 2 Utzenfeld, GP15	Villers, FL 9 Villers, FM12 Villers-aux-Bois,	Weris, B K 5 Werlaing, F F 5
St. Amand, FE 6 St. Amand, FE 5	St. Quentin, FF 7 St. Quentin, FH 8	Sevieny F 11 8	Sulzbad, G012 Sulzburg, GP15 Sulzeren, G014	Vacon, FL12 Vacray, FJ11	Villers-Bretonneau	Wervicq, B E 4 Wervicq, B F 3
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St. Amarin, G015 St. Ame, FN14 St. Andre, B F 2	St. Remey, FN13 St. Remy, F G 6	Sey, GM10 Sezanne, FG12 Shelles F. F.	Sweveghen, BF 3	Valhey, FM12 Valhnen, FD 5	Villers-Fauton.	Westkerke, R F 2
St. Andre, FF 4	St. Remy, F J10	Shelles, F	Sulzeren, G	Valhey, F	F	Westrehem, F D 4 Westroosebeke, B. E 3 Westvleteren, B. E 3
St. Aubert, FF 6 St. Aubin, FF 8	St. Remy, GM10	Sierck, G M 9 Signy l'Abbaye,	Taillefontaine, F. F 9 Taintrux, F N13	Vandoeuvre, FM12 Vandy, FJ 9	Villerup, F L 9 Villeselve, F F 8	Wetteren, B G 2 Wettolsheim, G. O14
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St. Ame, F	St. Quirin, G. O12 St. Remey, F. N13 St. Remy, F. G 6 St. Remy, F. H 9 St. Remy, F. L10 St. Remy, F. L10 St. Remy, F. L10 St. Remy, F. L10 St. Remy, Blanzy, F. F10 St. Saulve, F. G 5 St. Saulve, F. M15 St. Saulve, F. H15 St. Simon, F. F. H15 St. Souplet, F. H10 St. Souplets, F. E10 St. Supplets, F. E10 St. Vaast, F. F 6 St. Vaast, F. F 6	Signy le Petit, F	Tarcienne, B H 5 Tartiers, F F 9	Vandoeuvre, F. M12 Vandy, F. J 9 Vannecourt, G. N11 Varennes, F. J10 Varneville, F. L11 Varney, F. K11 Varreddes, F. E10 Varsenaere, B. F 2 Varvinay, F. L11 Vassens, F. F 9 Vatry, F. H11 Vanbecourt, F. K11 Vaucelles, F. F 6 Vauchamps, F. G11 Vauclerc, F. J12 Vauday, F. F12 Vaudesincourt, F.	Ville-s-Yron, FL10	F E 4 Wibrin, B L 6 Wiebelskirchen,
St. Benoit, F N13 St. Blaise, G O13	St. Souplets, F.E10	Signy Signets, F. F11 Silenrieux, B H 6 Sillegny, G M11 Silley, F II10 Silly, G M10 Silly, G M10 Silly la Poterie, F F10 Silmont, F. K11 Simonswald, G. R14 Sin F F 5	Tartiers, F F 9 Tavigny, F G 7 Tavigny, B L 6 Templeuve, B F 4	Varssenaere, BF 2 Varvinay, FL11	Villey, F L12 Villiers le Bel, F D10 Vilosnes, F K 9	G O 9 Wiencourt, FE 7
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Ste. Cecile, B. K 7 St. Christ. F E 7	St. Valery sur	F	Pévèle, F F 4 Tenneville, BK 6	Vaucelles, F F 6 Vauchamps, F G11	Villotte, FK11 Vimy, F E 5 Vinay, F G10 Vincennes, FD11	GP10 Willencourt, FD 5
St. Clement, F. N12 St. Crepin, F E 9	Somme, FC 6 St. Vauxbourg, F	Simonswald, GR14 Sin, FF 5	Termier, F F 8 Termes, B K 8	Vauclere, FJ12 Vauday, FF12	Vincey, F MIS	Willerwald, G N 10 Wilskerke, B E 2
St. Croix, BF 2 St. Demis, FD11	St. Venant, F E 4 St. Waast, F G 5	Singrist, G U12 Sinsin, B K 5 Singheim G. R11	Terny, FF 9	FH10	Virecourt, FM13	Wimereux, F C 3 Wimille, F C 3 Winchringen, G.N 8
St. Eloi, B E 3 St. Erme, F G 8 St. Etienne, F N14	St. Venant, F E 4 St. Waast, F G 5 St. Wendel, G O 9 Sallaumines, F. E 5	Sirault, BG 4 Sissonne, FG 8	Pévèle. F. F. 4 Tenneville, B. K. 6 Terguier, F. F. 8 Termes, B. K. 8 Termusy. F. N. 15 Terny, F. F. 9 Terriere, F. G. 5 Terty, F. F. 7 Teterchen, G. N. 10	Vaudetre, F H 10 Vaudetre, F H 9 Vaudoncourt, F. I. I 9 Vauquois, F K10 Vaumoise, F F10 Vauvillers, F E 7 Vauvillers, F M15 Vauly F. F. 6	Viomenil, F	Winchringen, G.N 8 Winden Minfeld, G
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	Samree, BL 6 Sancourt, FF 7	Socourt. FM13 Soex, FD 3	Therorgues, F J 9 Therouganne, F D 4		Vitry-en-Artois, F F 5 Vitry-en-P., F	Wissant, FC 3 Witry, BL 7
St. Genevieve, F.M11 St. Georgen, G. P14 St. Georges, B. E 2 St. Gerard, B. J 5 St. Germain, F. N16	Sangatte, F C 3 Sante, F E 4	Solier, B J 6 Solissons, F F 9 Solizy F G11	Therouanne, F D 4 Thezey, F M11 Thiant, F F 5 Thiaucourt, F J.11 Thibite, F H11 Thicblemont, F J12 Thiciosse, F N15 Thiett, B F 3 Thiengen, G P14 Thiennes, F E 4 Thiescourt, F E 8 Thil. F G 9	Vaux, G M10 Vauxcere, F G9 Vailly, F F9 Vavincourt, F K11	Vitry-en-F., F	Wittenheim, GO15 Wittes, F D 4
St. Gerard, BJ 5 St. Germain, FN16	Sapigneul, F G 9 Sapogne, F J 8	Soissons, F. F. 9 Soizy, F. Gl1 Solente, F. E. 8 Solesmes, F. F. 6 Solesmes, F. G. 6 Sologne, G. Ml1 Solre, F. H. 6 Somain, F. F. 5 Sombrin, F. D. 5 Sombrin, F. D. 6 Somergem, B. G. 2 Sommauthe, F. J. B Somme-Blonne, F. J. B Somme-Blonne, F. J. B Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J. Somme-Blonne, F. J.	Thibie, F H11 Thieblemont, F J12	Vavincourt, FK11 Veiving, GN10	Vladsloo, B E 2 Vlamerlinghe, B. E 3	Wittes, F D 4 Wiwersheim, G P12 Woel, F L10
FF 8	Sarcy, FG10	Solesmes, F G 6 Sologne, G M11	Thielt, BF 3	Vavincourt, F. K11 Veiving, G. N10 Velaine, F. M12 Velaines, B. F. 4 Velasnes, F. K. 8 Velu, F. E. 6 Vendult, F. J11 Vendegies, F. G. 5 Vendegies, F. G. 6 Vendelles, F. F. 7 Vendenheim, G. P12 Vendresse, F. J. 8 Vendrest, F. F10 Veneimont, B. J. 6 Venizel, F. F. 9 Vennesey, F. N13 Ver, F. E10	Void, FL12 Volcksberg, GO11 Volkingen, G. N10	Wiwersheim, GP12 Woel, F
St. Gibrien, F G 9 St. Gilles, F G 9 St. Helene, F N13 St. Hilaire, F H 9 St. Hilaire, F L10	Sart, BJ 6 Sasbach, GP14	Somain, FF 5 Sombrin, FD 5	Thiennes, FE 4 Thiescourt, FE 8	Velu, FE 6 Venault, FJ11	Völmeringen, GN10 Voncq, F J 9	Wolferding, G010 Wolfstein, G P 8
St. Helene, F N13 St. Hilaire, F D 4	Sasbach, GR12 Sassey, FK 9	Somergem, B G 2	Thil, F G 9 Thillot, F L10 Thillois, F G 9 Thin-le-Moutier,	Vendegies, FG 5 Vendegies, FG 6	Voneche, B J 6 Voormezeele, B E 3	Wollweiler, G 015 Wolmeringen, G.M 9
St. Hilaire, FH 9 St. Hilaire, FL10 St. Hilaire au	Saul, LL 8	Somme-Blonne, F.110	Thin-le-Moutier,	Vendenheim, GP12	Vorges, F J 9 Vovenne F. G.8	Wolxh'm, GP12 Wondelgem, B., G 2
St. Hilaire au Temple, F H10 St. Hubert, B K 6 St. Imoges, F G10 St. Ingbert, G O 9 St. Jean, B E 3 St. Jean, F J11 St. Jean, F M12 St. Jean, G O11	Saulces, F H 9 Saulcourt, F F 6	Sommedieue, F., K10 Sommedieue, F., K10 Sommeilles, F., K11 Sommery, F., H9 Sommerance, F., K9 Sommerviller, F., M12	FJ 8 Thimonville, GM 11 Thionville, GM 9	Vendrest, FF10 Veneimont, BJ 6	Völmeringen, G.N10 Voncq, F	Wormeldangen, L
St. Imoges, FG10 St. Ingbert, GO 9	Saulmory, F K 9 Saulnes, F L 8	Sommerviller, F. M12	Thirimont, B H 5 Tholey, G O 9	Venizel, F F 9 Vennesey, F N13	Vrigne, F	Wormhoudt, FD 3 Wortegem, BG 3
St. Jean, BE 3 St. Jean, FJ11 St. Jean F. M12	Sault-Iz. Rethel,	Somme-Suippes,	FK 8 Thourotte, FE 9	Verberie, FE 9 Verdelot, FE11	Vry, GM10	Woumen, BE 3 Wusteweiler, G. O10
St. Jean, GOll St. Johann	Saulzures, F N15 Saulzoir, F F 5	FJ10 Somme-Tourbe, F.110 Somme-Yevre, F.111	Thourout, B F 2 Thuilles, B H 5	Verdun, FK10 Vergaville, GN11	Vtres, F F 6 Vynckt, B F 2 Waben, F C 5 Wacques Farm,	Wulverghem, BE 3 Wyngene, BF 2
St. Julien, BE 3	Saux, FK12	Sommiere, B 5 Sompuis, F H12	Thuisy, FH10	Vennesey, F. N13 Ver, F. E10 Verberie, F. E9 Verdelot, F. F11 Verdun, F. K10 Vergaville, G. N11 Verlinghem, F. E 4 Vermand, F. F 7	Waden, F Wacques Farm,	Wytse Laete, B. E 4 Xammes, F L11
St. Johann Brebach, G	Samree, B. L 6 Sancourt, F. F 7 Sand, G. O 9 Sangatte, F. C 3 Sante. F. E 4 Sapigneul, F. G 9 Sapogne, F. J 8 Sapogne, F. J 8 Sarcy, F. Gl0 Sarladinge, B. G 3 Sart, B. J 6 Sasbach, G. R12 Sasbach, G. R12 Sasbach, G. R12 Sassey, F. K 9 Sauchy, F. F 6 Saul, L. L 8 Saulces, F. H 9 Saulces, F. H 9 Saulces, F. H 9 Saulces, F. G 5 Sault-Iz. Rethel, F. G Sault-Iz. Rethel, F. H 9 Saulzier, F. F 5 Sauville, F. J 8 Saulzier, F. K 9 Sault-Iz. Rethel, F. H 9 Saulxures, F. N15 Saulzier, F. F 5 Sauville, F. J 8 Saux, F. K 12 Savigny, F. J 9 Savy, F. E 5 Sceaux, F. D 5 Sceaux, F. D 5 Schallstadt, G. P 15 Schifflingen, L. L 8 Schifflewieler, G. O 9	Somme-Yevre, F. J1 Sommiere, B	F	F E 7 Vermelles, F E 5	Waderin, G N 8 Waereghem, B. F 3	Wormeldangen, L. M 8 Wormhondt, F. D 3 Wortegem, B. G 3 Worth, G. P11 Woumen, B. E 3 Wnsteweiler, G. O10 Wulverghem, B. E 3 Wyngene, B. F 2 Wytschaete, B. E 3 Wytse Laete, B. E 4 Xammes, F. L11 Xanrey, G. N12 Xermamenil, F. N12 Xertigny, F. M14 Xirocourt, F. M13 Xivry, F. L 9 Ypres, B. E 3 Yvernaumont, F. J 8 Yvernaumont, F. J 8 Yvoir, B. J 5
St. Just, F D 8 St. Juvin, F J 9	Schallstadt, GP15 Schifflingen, LL 8	Songy, F H11 Sons, F G 7	Tillet, BL 6 Tilloloy, FE 8	Verneuil, F G 8 Verneuil, F G10	Wagner, GM10 Wail, FD 5	Xertigny, FM14 Xirocourt, FM13
St. Kreuz, G013 St. Kreuz, G014 St. Laurent B. G.2	Schifflingen, L. L 8 Schiffweiler, G. () 9 Schiltighm, G. P12 Schirmeck, G. O13 Schlachtenhaus,	Sorbey, GM10	Tilloy Bellay, F J10	Verney GM10 Vernel FM10	Walburg, GP11 Walcourt, BH 5	Ypres, BE 3 Yvernaumont, F.I 8
St. Laurent, F E 5 St. Laurent, F L 9	Schlachtenhaus, GP16	Sorel, FF 6 Sorneville, FM12	Tincourt, FF 7 Tincry, GM11	Verrieres, F J 8 Verrieres, F J10	Waldfischbach, G.P 9 Waldhausen, GP10	Yvoir, BJ 5 Yvrench, FC 6
St. Laurent, FM14 St. Leger, BL 8	G	Sottegem, BG 3 Sotzweiler, GO 9	Tinques, F 5 Tintange, B L 7	Versigny, F F 8 Vertus, F G11	Waldweise, G N 9 Walferdgen I. M 8	Zandvoorde, B. F 3
St. Leonard, FH10 St. Leonard, FO14	Schonau, G P15	Souchez, F E 5 Soude N. D., F. H11	Toges, F J 9 Tontenoy, F F 9	Vervins, F G 7 Very, F K 9	Walhalben, G P 9 Wallerand, F J 6	Zedelghem, BF 2 Zeebrugge, BF 1
St. Leu. F D10 St. Louis, G O12	Schoracit, G010 Schonau, G	Soude Ste. Cry, F. H11	Torcy, FF10 Touquet, FC 4	Verzenay, FH10 Verzy, FH10	Wallerfangen, G.N 9 Wallers, FF 5	F
St. Laurent, F M14 St. Leger, B. L. 8 St. Leger, F. E. 6 St. Leonard, F H10 St. Leonard, F D10 St. Louis, G O12 St. Louis, G O12 St. Loup, F H 9 St. Loup, F M15 St. Marcel, F L10 St. Mard, F J11 St. Marguerite.	Schorbach, GP 9 Schuyfferscappelle	Soudron, FH11 Souilly, FK10 Soulanges F. III	Toufflers, F F 4	Vescoux, F N15 Vesigned F H11	Wancennes, B J 6 Wanceurt, F E 6	Zell, GR13 Zellenburg, G014
St. Mard, FJII St. Marguerite,	Schuyfferscappelle, BF 2 Schwarzenacker,	Soultzbach, G014 Soultzmatt, G015	Toulis, FG 8 Tournay, BF 4	Veslud, FG 8 Vesqueville, BK 6	Wangassen, G N10 Wanlin, B K 6	Zepenecken, BG 2 Zerf, G N 8
F	Schweighof, G. P15	Soumoy, B H 6 Soupir, F G 9	Tournes, F J 7 Tournes, B G 4	Vezaponin, F F 9 Vezelesi, F M13	Warca, FL10	Yvernaumont, F.J. 8 Yvoir, B
St. Marguerite, F	Schweigsnausen, G P11 Seboucourt, F F 7 Sechault, F J 9 Sedan, F J 8 Seefelden, G P15	Sotzweiler, G	Thionville, G. M. 9 Thionville, G. M. 9 Tholey, G. O. 9 Thonne le Thil, F K. 8 Thourotte, F. E. 9 Thonles, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thuin, B. H. 5 Thionvelle, F. H. 10 Thynes, B. J. 5 Tillet, B. L. 6 Tilloloy, F. E. 8 Tilloy, F. E. 8 Tilloy, F. E. 8 Tilloy, F. E. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 8 Tilloy, F. T. 7 Tincourt, F. F. 7 Tincourt, F. F. 9 Tontenoy, F. F. 9 Tortequenne, F. F. 5 Toufflers, F. T. 4 Tout, F. T. 12 Toulis, F. G. 8 Tournay, B. F. 4 Tournes, F. J. 7 Tourpies, B. G. 4 Tournes, F. J. 7 Tourpies, B. G. 4 Tournes, F. M. 3 Tracy, F. E. 9 Tramery, F. G. 10 Tranchiennes, B. G. 2 Transinne, B. K. 6	Vernand, F. E. 4 Vermand, F. F. 7 Vermandovillers, F. E. 5 Verneuil, F. G. 8 Verneuil, F. G. 8 Verneuil, F. G. 9 Verneville, G. M.10 Verny, G. M.10 Verpel, F. J. 9 Verrieres, F. J. 8 Verrieres, F. J. 8 Verrieres, F. G. 11 Versigny, F. F. 8 Vertus, F. G. 11 Vertuzey, F. L. 12 Vervins, F. G. 7 Very, F. K. 9 Verzenay, F. H.10 Vescoux, F. M.10 Vescheim, G. O.11 Vescoux, F. M.15 Vesigneul, F. H.11 Veslud, F. G. 8 Vesqueville, B. K. 6 Vezaponin, F. 9 Vezelesi, F. M.13 Vezon, B. G. 4 Viarmes, F. D.10 Vic, G. N.11	Waderin, G. N. 8 Waereghem, B. F. 3 Wagner, G. M10 Wail, F. D. 5 Wailly, F. C. 5 Waiburg, G. P11 Walcourt, B. H. 5 Waldfischbach, G. P. 9 Waldhausen, G. P10 Waldkirch, G. R14 Waldweise, G. N. 9 Walferfagen, L. M. 8 Walhalben, G. P. 9 Wallerand, F. J. 6 Wallerfangen, G. N. 9 Wallers, F. F. F. 4 Wancetines, B. J. 6 Wancourt, F. E. 6 Wangassen, G. N10 Wanlin, B. K. 6 Wanca, F. L10 Warca, F. L10 Warchin, B. F. 4 Wardamme, B. F. 2 Wardin, B. F. 4 Wardamme, B. F. 2 Wardin, B. L. 6 Warhem, F. E. 3 Warmeriville, F. H. 9 Warvillers, F. E. 7	Zonnebeke, B
St. Martin l'Heureux, FH 9 St. Masmes, FH 9	Sedan, F 8	Staden, B E 3 Staple, F D 3	Tramery, FG10 Tranchiennes, B.G 2	Vic. G	Warhem, F E 3 Warmeriville, F. H 9	Zuytpeene, F D 3 Zweibrucken, G. 1110
St. Masmes, F. H 9	beeleigen, GP15	Stauten, G. ,P15	Transmine, D N 0	vien, F 9	warvincis, F E.	







THE PRONUNCIATION OF WAR NAMES

By C., O. Sylvester Mawson, Litt.D., Ph.D. KEY TO PRONUNCIATION

Vowel sounds: ale, bare, arm, ask, senate, am, organ, soid; eve, event, end, novel, baker; ice, ill; old, orb, obey, odd, combine; use, arn, onice, op, locust; food, foot; out, oil; menu.

Nota.—a, as in French menu or German Muller, has no equivalent in English. To produce it hold the lips rigidly in position to say 60 and attempt to say 8. o of of in German resembles the English u in urn; e.g., Gothe or Goethe is pronounced golf.

Consonants: As in English. ch as in chair; g as in go; kw for gu as in queen; s as in so; sh as in she; z as in zone; zh as z in zure.

Special symbols: k (small capital) for ch as in German teh or Scotch loch; n (small capital) indicates nasal tone of preceding vowel, as in French bon (bon); n (= ng) for n before the sound of k or hard g as in bank (bank), Inger (lin/ger); 'indicates the elision of a vowel, or a mere suggestion of a vowel sound, as in Ypres (e/pr).

Accents: The principal or primary accent is indicated by a heavy mark (p), and the secondary accent by a lighter mark (p); thus Bourines (boodven), Massachusetts (mas/d-ch60/seta).

Nota.—French cames have the primary accent on the final full syllable, but this accent should generally be very slight. The other syllables are marked with equal stress. In German cames the principal accent is placed earlier in the word, as in English. In Hungarian and Bohemian names the accent is on the first syllable. In Polish, as in Italian, the accent is on the penult. In Russian the accent is capriclous but very marked.

NAMES FROM THE WESTERN WAR AREA Aachen (or Ais-la-Chapelle), ä/kön Aalat (or Aloat), älat Agincourt, å/thän/köor!; Eng. äj/lo-kört Alsen (river), än Aiz-la-Chapelle (or Aachen), äks/la/sha/pël/Albert, å/thår!
Albert, å/thår!
Anter (river), än/kr
Arrentieres, år/män/tyår!
Arrentieres, år/män/tyår!
Arrentieres, år/män/tyår!
Arran, å/räs/
Artois, år/twå!
Artiois, år/twå!
Attigny, å/tē/nyĕ!
Aube (river), öb
Aubenton, ö/bän/tön/
Avbigny, ö/bë/nyĕ!
Aube (ror Oudenarde), ou/dē-nār/dē
Avesnes, å/våo!
Avriconrt, å/ra/koor!
Bale (or Basel), bäl
Bapatune, bå/pöm!
Bar-le-Duc, bår/lē-dilk!
Basel (or Bale), bä/zå!
Basele, La, la/ bá/sā!
Bastogne, bä/tön/s
Bealuvnis, bö/vē!
Bellort, bě/lör/
Berlimont, bě/lö/mön/
Berlimont, bě/lö/mön/
Berlimont, bě/lö/mön/
Berlimont, bě/lö/mön/
Berlimont, bö/än/
Bouhain, bő/än/
Bouhain, bő/än/
Bouhain, bő/än/
Bouhain, bő/än/
Bouhain, bő/än/
Bray-sur-Seine, brē/sin/-sän/
Bray-sur-Seine, brē/sin/-sän/
Brigy, brē/e/
Bruges, brizh
Cambrai (or Cambray), kän/bře/
Cragnan, ka/rēn/yän/
Crateau, Le, lē ká/tő/
Châlons-sur-Maroe, shä/lön/-sür/-mān/
Chalon-sur-Soñe, sha/lön/-sür/-mān/
Chalon-sur-Soñe, sha/lön/-sür/-sön/
Chareleroi (or Charleroy), châr/e-rwā/
Charleroi (or Charleroy), châr/e-rwā/
Charleroi, sha/län/
Comies, kön/dān/
Chalons, shō/nō/
Charleroi, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Comies, kön/nō/
Crecy or Cressy, kra'-sē/; Eng, kra'-för-chan, dō/nān/
Domal (or Termonde), dēn/

Ferté-sous-Jouarre, La, lá/ fěr/tā/-sőő/zhőðár/
Frourmies, főn/mő/
Fresnes-en-Wöövre, frěn/-än/-vô/čv/r'
Genappe, zhě-náp/
Gironville, zhě/rôn/vč!/
Givenchy, zhě/ván/sbě/
Givet, zhě/vő/
Gorizia (or Górz), gô-rid/zě-ä
Görz (or Gorizia), gôrts
Gravelotte, gráv/lőt/
Guiscard, göz/kär/
Guiscard, göz/kär/
Guise, güčz/
Hal, håi
Hautmont, ő/mőn/ Hal, hāi
Hautmont, ō'mōn'
Helgoland (or Heligoland), hēl'gō-lānt
Hirson, ēr'sōn'
Huy, hoi
Juniville, zhhi'nē'vēl'
La Bassée, lā' bā'sā'
La Fēre, lā' fār'
La Fēre-Champenoise, lā' lār'-shān'pē-nwāz'
La Fērté-Gous Jouarre, lā' fēr'tā'-gō'shā'
La Ferté-Gous Jouarre, lā' fēr'tā'-gō'shā'
La Ferte-Gous Jouarre, lā' fēr'tā'-gō'shā'
La Ferte, lā'sh' kā'bī'
Langre, lān'gē'
Langre, lān' kā'bō'
Lens, lāns
Le Quesnoy, lē kā'owā'
Liancourt, lē'ān' kō's'
Liere, lē'ēzh'
Liere, lē'ār'
Ligny, lēn'yē'
Ligoy-eo-Barrots, lēn'yē'-ān'-bā'rwā'
Lillie (or Lisle), lēl
Loogs, lō-ōs'
Lorraine (or Lothringen), lō-rān'
Lothrlagen (or Lorraine), lōt'rlog-ēa
Louvain, lōō'vān'
Lunēville, lū'nā'vēl'
Lys (river), lēs
Maisous-Alfort, mā'zōn'-zāl'ſōr'
Marcoing, mār'kwān'
Mayence (or Mainz), mā'yāns'
Meauz, mō
Melun, mē-lūn'
Messancy, mō-sān'sē'
Mense (river), mōz; Eng. mūz
Mēziēres, mā'zyār'
Mons, mōns
Montulidler, mōn'dē'dyā'
Montureux, mōn'tū'rū'
Montureux, mōn'vū'nā'
Montureux, mōn'vō'nā'
Milhausen mūl'hou'zēn
Namur, nā'mūr'
Neuve Chapelle, nū'vāha'pēl'
Nieuport, nē'cō-pōt
N'mes (or Niemes), nēm
Oise, wāz
Orchies, ōr'shē'
Oudenarde (or Audenarde), ou'dē-nār'dē
Outen pā'rōo' Ourthe (river), oort Péronne, på/rôd/ Philippeville, fë/lëp/věl/ Pierrefitte, pyår/fōt/ Pierrefonds, pyär/fōn/ Poitlers, pwå/tyä/ Poitlers, pwå/tyä/ Pierrefoods, pyar/ion/
Poit.ers, pwa/tya/
Poit, pwä
Poit.ers, pwa/tya/
Poit.ers, pwa/tya/
Poit.ers, pwa/tya/
Poit.ers, pwa/tya/
Poit.ers, pwa/tya/
Poit.ers, pwa/tya/
Poit.ers, pa/tr-bra/
Quatre-Bras, ka/tr'-bra/
Quatre-Bras, ka/tr'-bra/
Quatre-Bras, ka/tr'-bra/
Quatre-Bras, ka/tr'-bra/
Quatre-Bras, ka/tr'-bra/
Ram-l'Etape, rän/la/tap/
Raun-l'Etape, rän/la/tap/
Raun-l'Etape, rän/la/tap/
Raun-lietape, rän/la/tap/
Rethel, rë-tël/
Rethel, rë-tël/
Rethel, rë-tël/
Rethel, rë-tël/
Rethel, rë-tël/
Rethel, rë-tël/
Robefort, rësh/tör/
Rocot, rö/trwa/
Roisel, rwa/zël/
Roulers, rö/ba/
Roulers, rö/ba/
Rozoy-sur-Serre, rö/zwa/-sür/-sār/
Saar (river), zär
Saarheficken, zär/riik/žm Saar (river), zär Saarbrücken, zär/brük/en

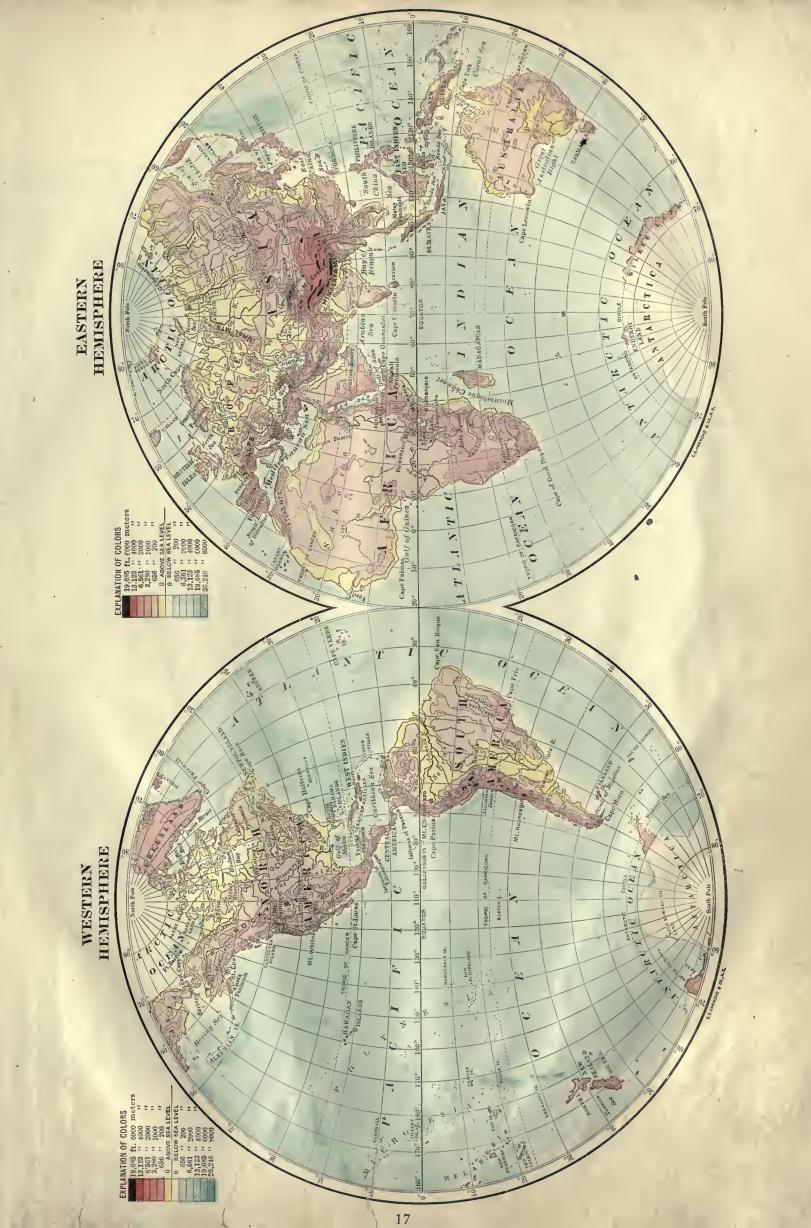
Saint-Amand, sān/tá/mān/
Saint-Denis, sān/-dč-nēf
Saint-Denis, sān/-dč-nēf
Saint-Dić, sān/-dyā/
Saiot Hubert, sān/-dyā/
Saiot Hubert, sān/tū/mār/
Saint-Miniel, sān/-mē/yēl/
Saint-Omer, sān/tū/mār/
Saint-Omer, sān/tū/mār/
Saint-Omer, sān/tū/mār/
Saint-Omer, sān/tū/mār/
Saint-Omer, sān/tō/mār/
Saint-Omer, sān/-trōn/
Sambre (river), sān/br/
Sedan, sē-dān/
Senlis, sān/lēg/
Sedan, sē-dān/
Senlis, sān/lēg/
Selane, sē-sōn/
Solssons, sā/sōn/
Solssons, sā/sōn/
Solssons, swā/sōn/
Solssons, swā/sōn/
Solssons, swā/sōn/
Solssone, sē/sōn/
Solssone, sē/sōn/
Tolssone, sē/sōn/
Somme (river, department), sōm
Suippes, swēp
Termonde (or Dendermonde), tēr/mōnd/
Thiaucourt, tyō/kōōr/
Thidt, tēlt
Thionville (or Diedenhofen), tyōn/vēl/
Thiaucourt, tyō/kōōr/
Trilemont, tēr/'mōn/
Tourcoing, tōn/'rmōn/
Tourcoing, tōn/'rwān/
Tournay (or Toursai), tōn/nā/
Trieste (or Triest), trē-ēst/
Valenciennes, vā/lān/syān/
Verdun, vēr/dūn/
Versailles, vēr/sāv/; Eng. vēr-sālz/
Vervins, vēr/vān/
Villers-Isetonneuz, vē/lār/-kō/tō/tō/
Villers-Cotterets, vē/lār/-kō/tō-tō/nū/
Villers-Cotterets, vē/lār/-kō/tō-tō/nū/
Villy-s-Retonneuz, vē/lār/-kō/tō-tō/nū/
Villy-s-François, vē/trē/-lē-frān/swā/
Vosges, vōzh
Voses, vōzh
Voser, top/ve/tr
Vpres, ē/pr/
Vser (river), ē/sē/
Vasesigny, vā/sē/opē/
Wave, vāv/r
Vpres, ē/pr/
Vser (river), ē/sē/
Valeneties šlē/sashtīn/
Alleneties šlē/sashtīn/

Vooire, E'vwar'
Zabern, tsä'bĕrn
Zeebrugge, tsä-bröog'č

Names from the Eastarn War Arra
Aldin, 1-dēn'
Allenstein, al'ēn-shtīn'
Ardahan, ār'dā-hān'
Algustowo, on'göös-tô'vō
Baku, bā-kōō'
Batum, bā-tōōm'
Belgrade, bēl'grād'
Beuthen, böl'tēn
Bislystok, byā'll-stôk
Bosphorus (or Bosporus), bōs'pō-rūs'
Botoshani, bō-tō-shān'y
Brālla, brā-ē'la
Braunsberg, bronnz'bērk
Brest-Litovsk, brēst'-lyĕ-tōfak'
Brusa (or Brussa), brōō'sä
Buczacz, bōō'chāch
Bug (river), bōōg
Bukharest (or Bucharest), bōō'kd-rēst'
Bukowina (Bukovina), bōō'kō-vē'nā
Cernavoda (or Tchernavoda), chēr'nā-vô'dā
Cetinje (or Cettinje), tsēt'ēn-yā
Constanţa (or Kustendje), kōn-stān'tsā
Cracow (or Krakow), krā'kō
Crajova (or Cralova), krā-yō'vā
Czernowitz, chēr'nō-vīts
Danzig (or Dantzic), dān'tsīk
Dardanelles, dār'dd-nētz'
Delatyn (pass), dē-lā'tīn
Diarbekr (or Diarbekir), dē-ār'bēk''r
Dnieper (river), nēs'tēr
Drohobycz, drō-hō'bīch
Dubno, dōōb'nō
Dukla, dōōk'lā
Durazzo, dōō-rāt'sō
Epīrus, ē-pī'rūs
Erzerum, ērz-rōom'
Erzingan, ērz'īn-gān'
Ezperna, ērz'īn-gān'
Ezperna, ērz'īn-gān'
Ezperna, ērz'īn-gān'
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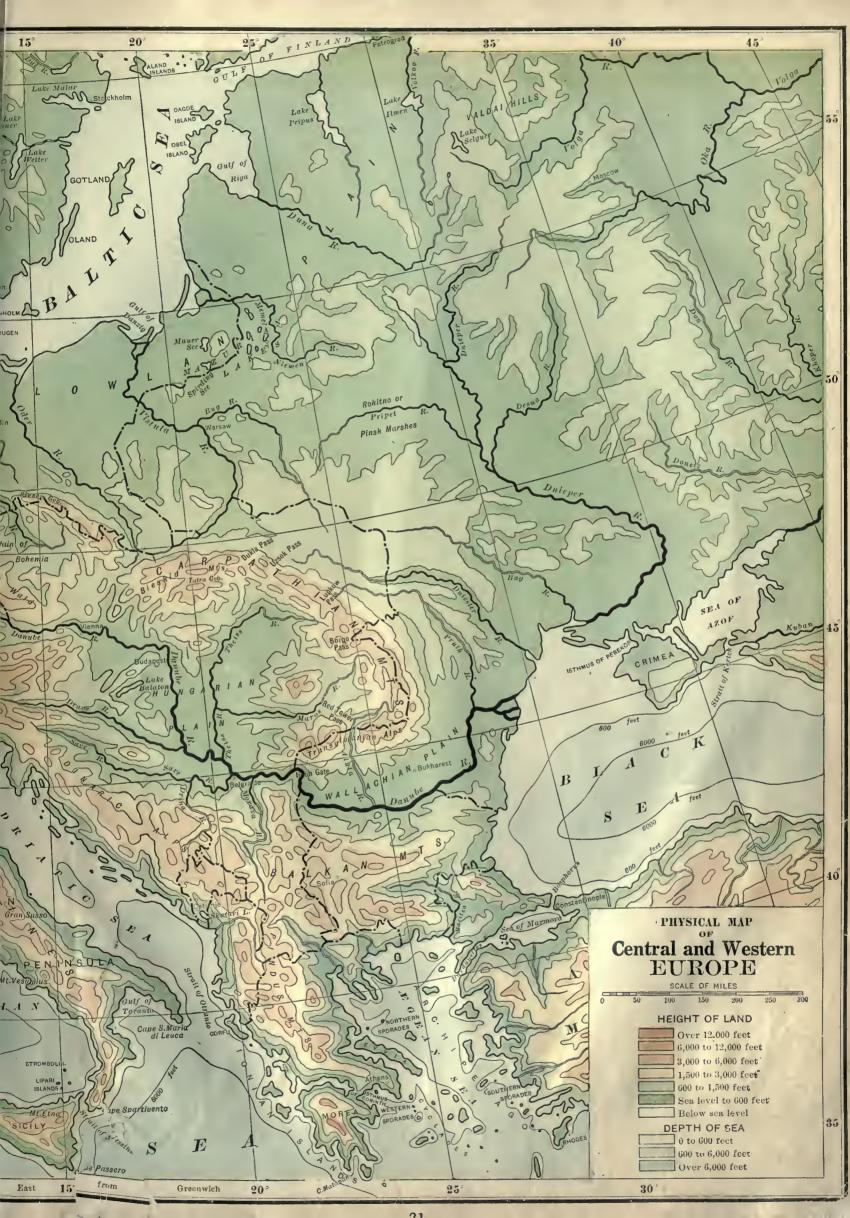
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Herzegovina, hēr/teč-gō-vē/u³
Horodenka, hōr/o-dēr/kä
Ivangorod, ē-vān/gō-rēt
Jamboll (or Vamboll), yām'bō-lē
Jaroslaw (or Jaroslau), yā-rēv'lāf
Jasey (or Yasey), yās'ē
Kaisarich (or Kaisaniych), kī/sā-rē'yē
Kaliza, kā/lysh
Keltay (or Kielce), kyēl'tal
Kholm, kō'tyēn
Kiel (or Kiev), kē'yēf
Kielce (or Keltay), kyēl'taē
Kishinet (or Kishlnev), kē-sbē-nyēt'
Kolomea, kō'lō-māfā
Kishinet (or Kishlnev), kē-sbē-nyēt'
Kolomea, kō'lō-māfā
Kovel, kō'vēl-y'
Kragojevatz (or Kraguyevatz), krā-gōō'yē-vāts
Krakow (or Cracow), krā'kō
Kremenchug (or Krementchug), krēm'ēnchōōk'
Kremnitz, krēm'nīts
Kurisches Hafī, kōō'rā-kā-sā hāf
Kustendje (or Constanta), kis-tēn'jā
Lemberg (or Lwów), lēmbērx
Liban, lē'bou
Lodz (or Lodz), lōdz; lōdoj
Lomza, lōm'zhā
Lūtic (or Lyublin), lyōō'blyēa
Lutak (or Lutak), lōōtak
Luwów (or Lemberg), lvūō
Māhrisch-Ostrau, mā'rīsh-ōōrx
Mitrovicza (or 'Mitrovitz), mē'trō-vētrsā
Moldava (river), mōl-dā'vā
Monastir, mōn'ds-tēr'
Mush, mōn'ds-tēr'
Mush, mōn'ds-tēr'
Mush, mōn'ds-tēr'
Mush, mōn'ds-tēr'
Mush, mōn'ds-tēr'
Mush, mōn'ds-tēr'
Nuraw or Narev (river), nā'rēf
Neutischein, noi'tl'shīn
Nikolaief (or Nikolayev), oyē'kō-lūl'yēf
Novogeorgievsk, nō'vō-gē-ōr'gē-yēfsk
Olmitz, ōl'mūts
Ostrog, ōs-trōk'
Ostrow, ōs'trōf
Peremyal (or Prezmysl), pē-rē'mīshl-y'
pehb'mīshl-y'
Petrokov (or Piotrków), pyō'trō-kōf'
Piotrków (or Petrokov), pyōt'rō-kōf'
Piotrków (or Petrokov), pyōt'rō-kōf'
Piotrków (or Salonica), sā'lō-nē'kē
San (river), sān
Sarajevo (or Sanayevo), sā'rā-yā-vō
Scntari (or Skntari), skōō'tā-rē
Screa, sēr'ēs
Seret, sēr'ēs
Seret, sā'rēs
Sinob (or Sanob), sō-rō'pē
Sivas, sēv'vās'
Skoplie (or Skutari), skōō'tā-rē
Screa, sēr'ēs
Sinob (or Sanob), sō-rō'pē
Sivas, sēv'vās'
Skoplie (or Vskūp), skōp'lyē
Sveolets (or Siedle), skōf'tā-rē
Screa, sēr'ēs
Sinob (or Sinob), sō-rō'pē
Sivas, sēv'vās'
Suwalnedinde, svē'nō-mūro'dē
Syedleta (or Vskūp), skōp'lyē
Sveoleta (or Vskūb, sopila), chēr'nā-vō'
dā
Sanope (or Tomaszow), tō-mā'sōof
Urmiah (or Urmia, Urumiah), ōs-r'mē'd
Valsund (or Vskūb, Sopila)
Valsund (or Vskūb, Sopila)



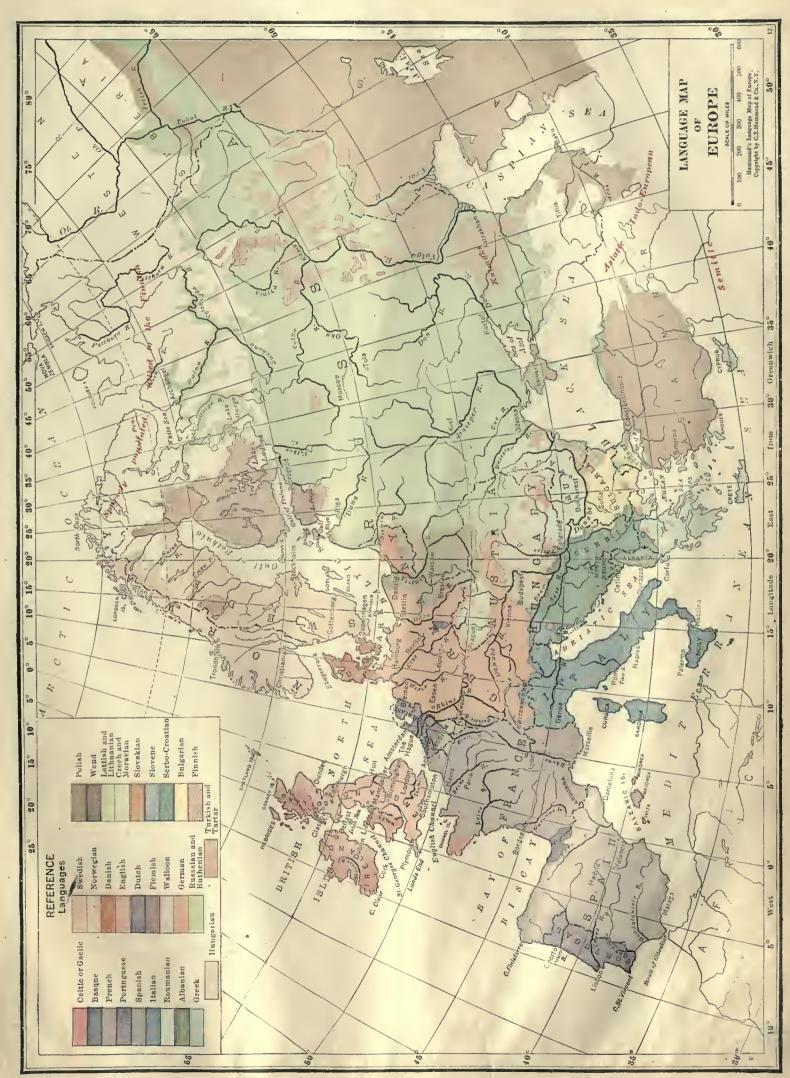


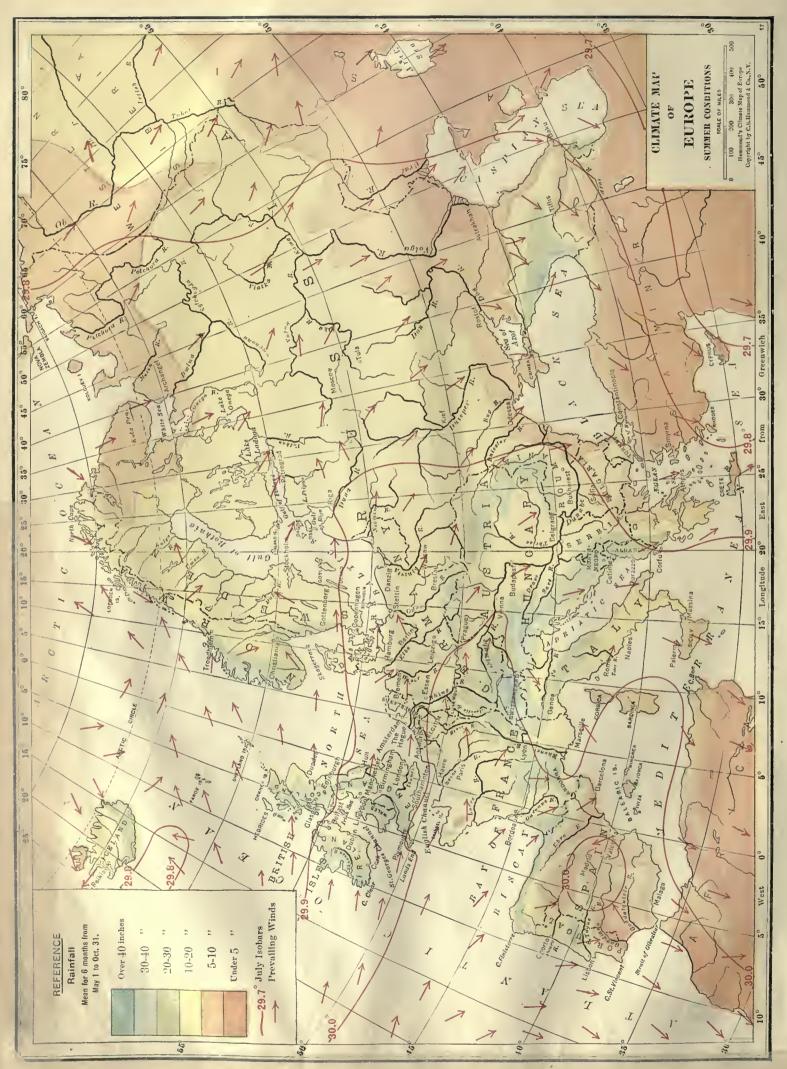


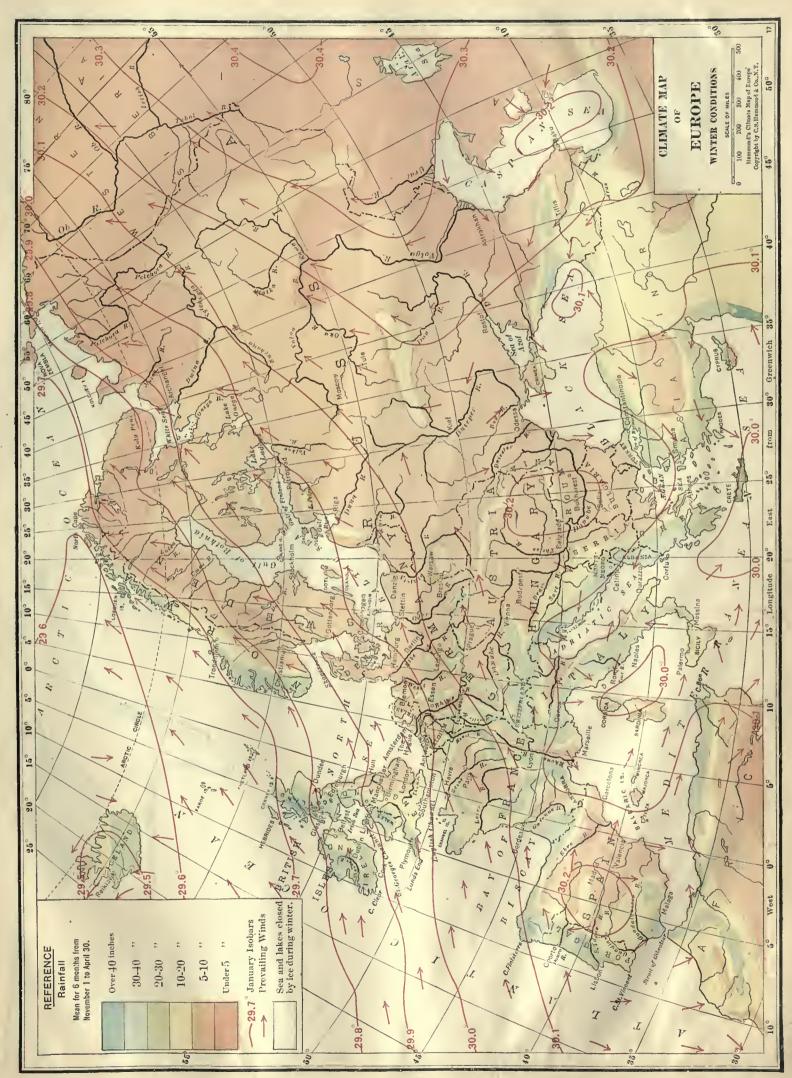


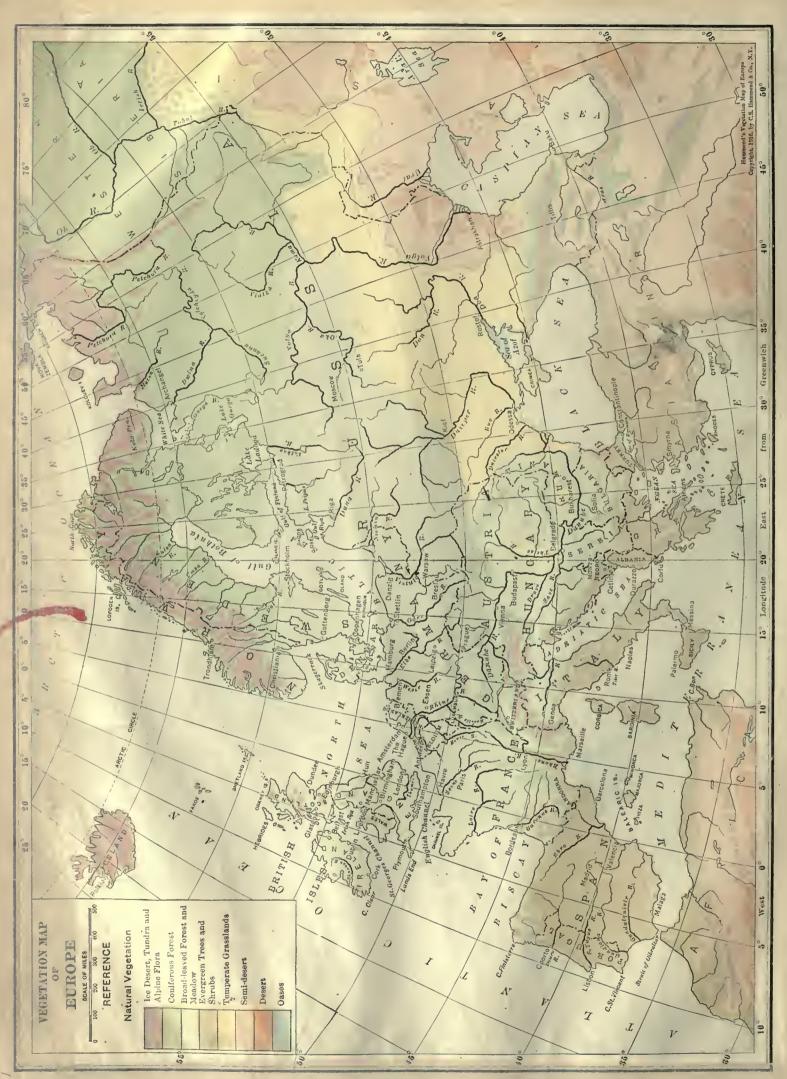


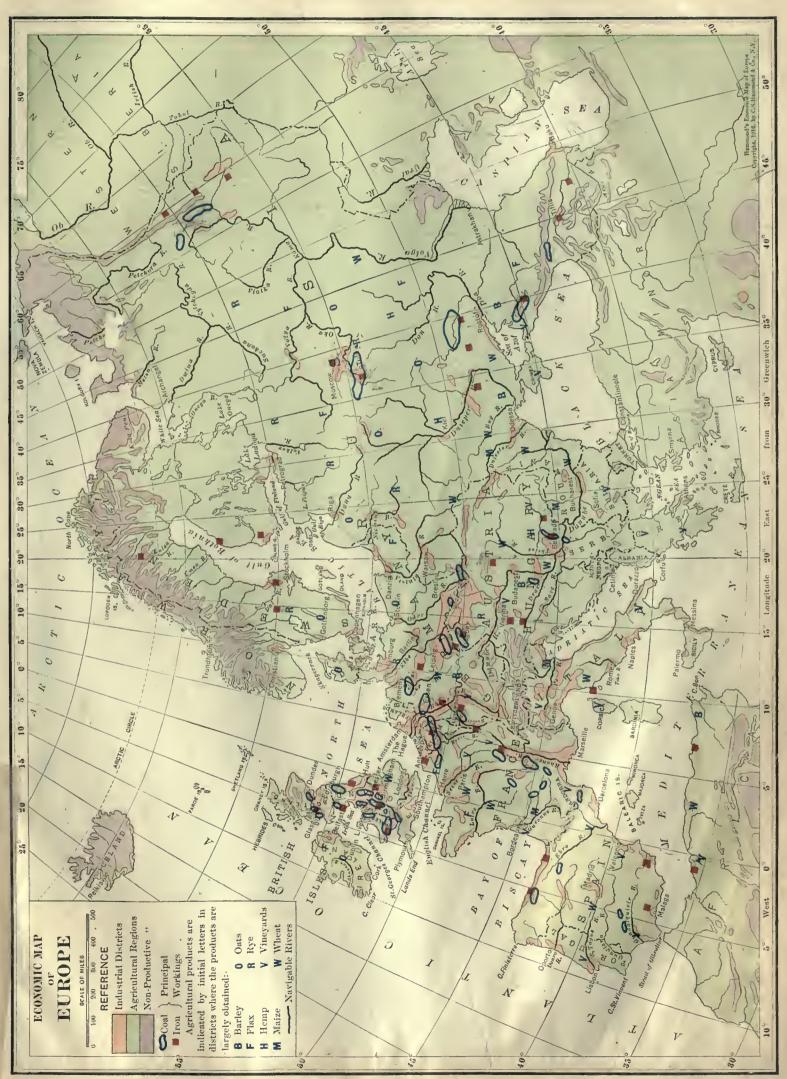


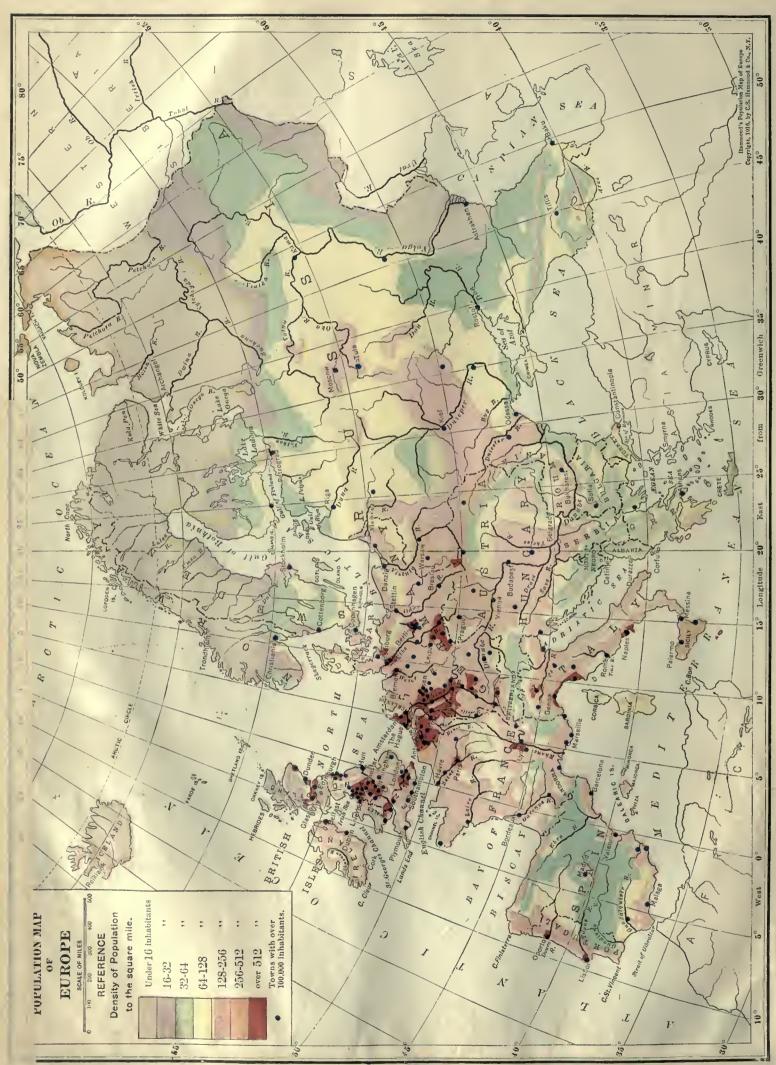


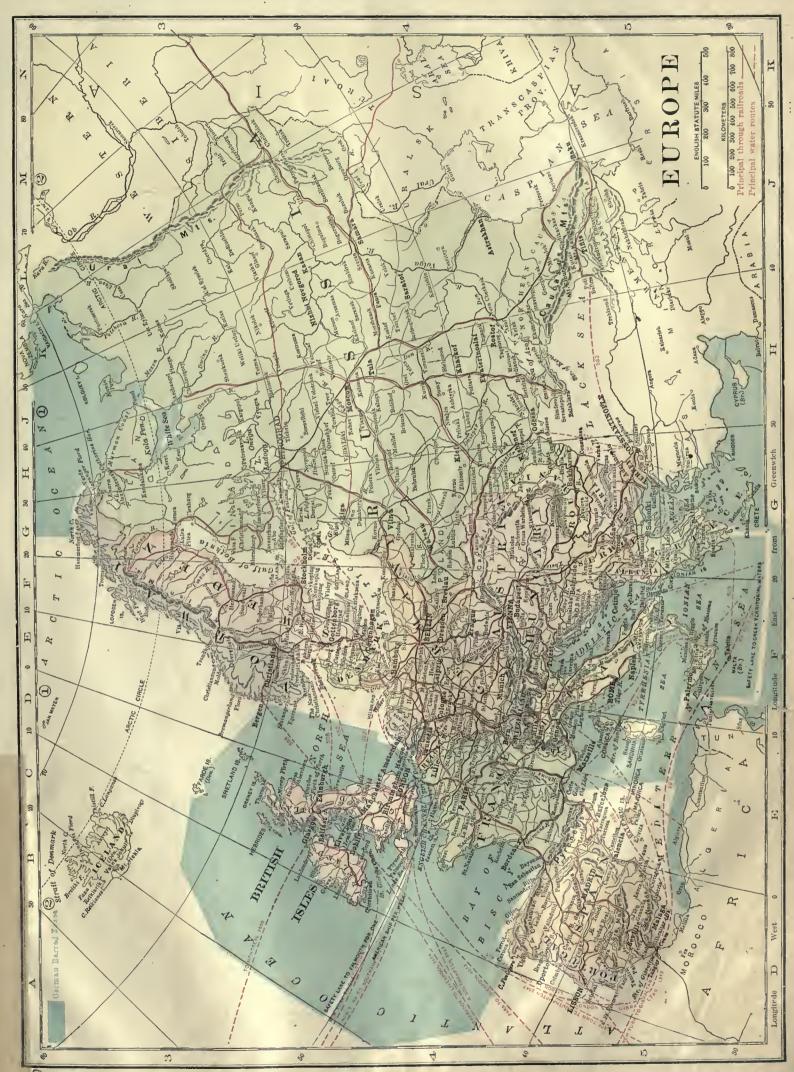






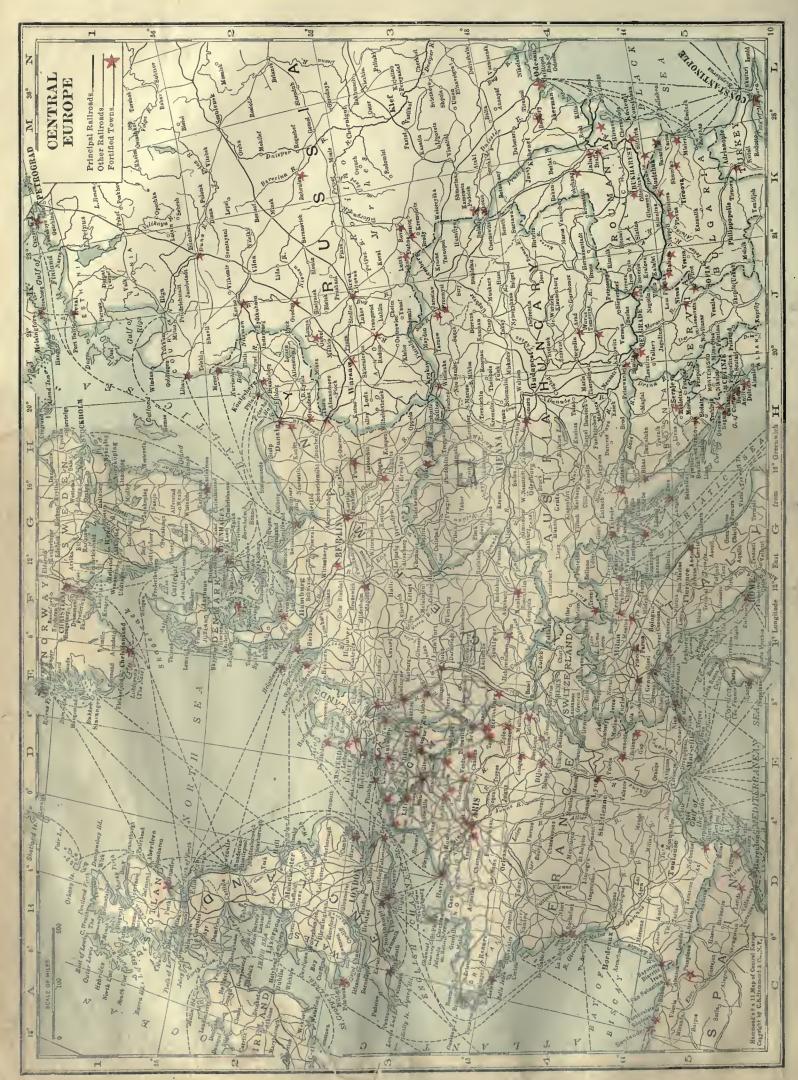




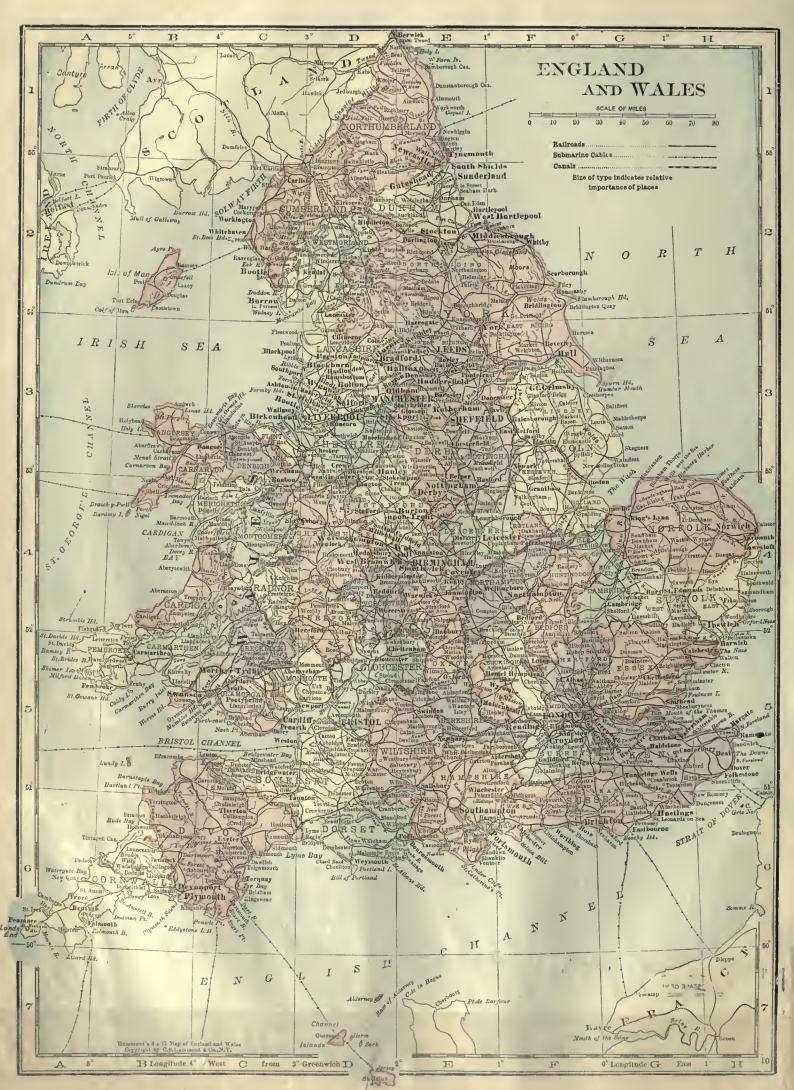


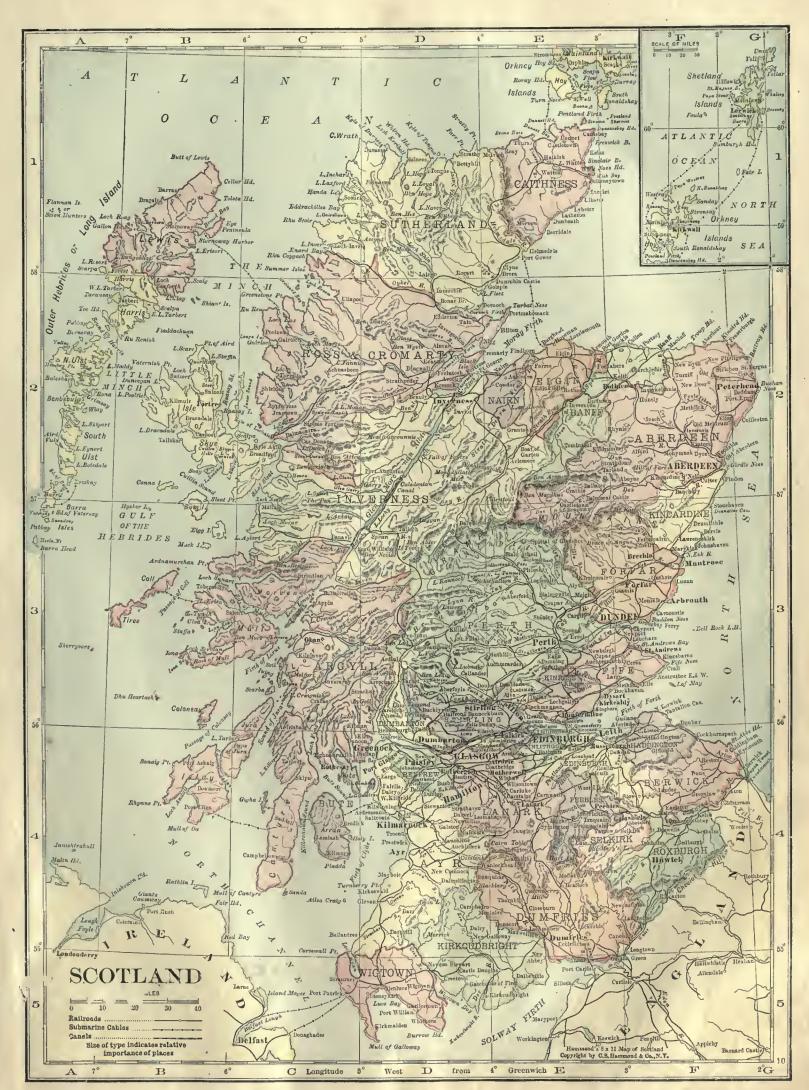








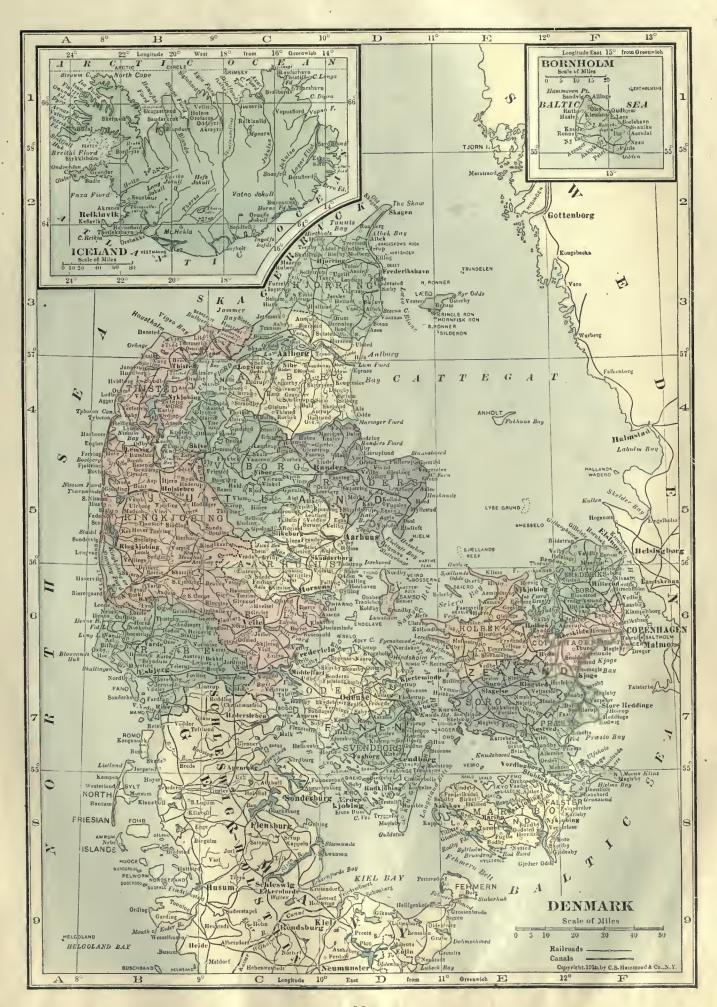


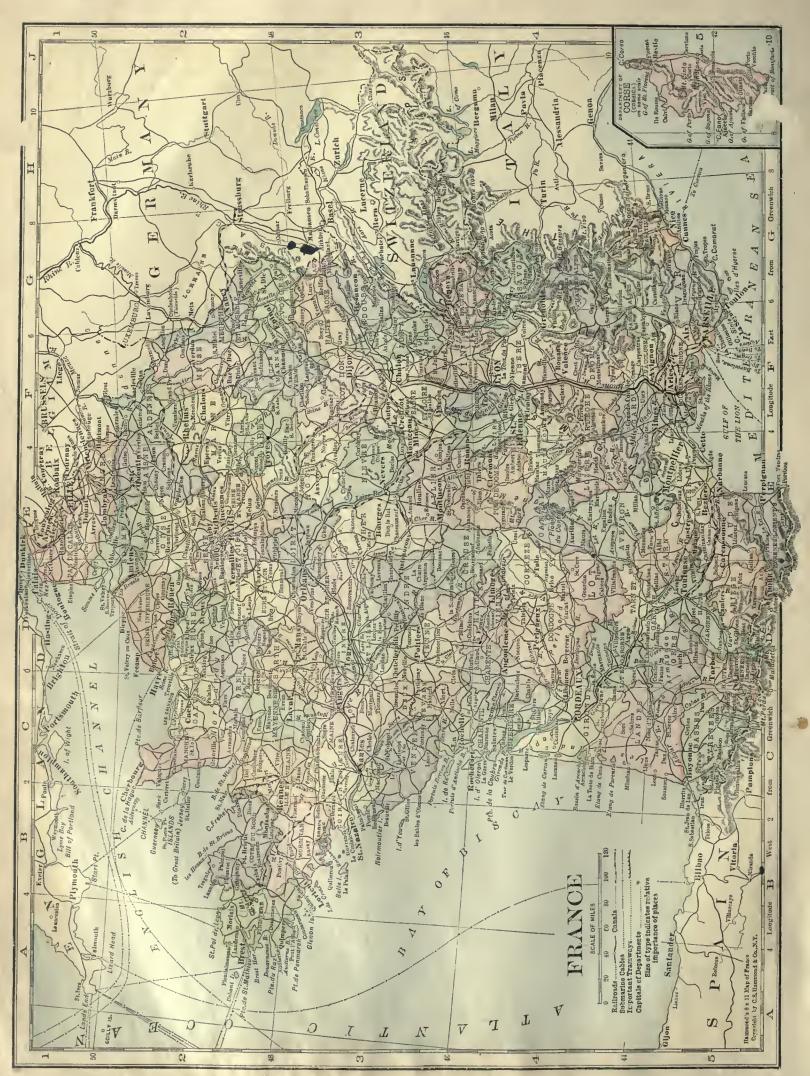


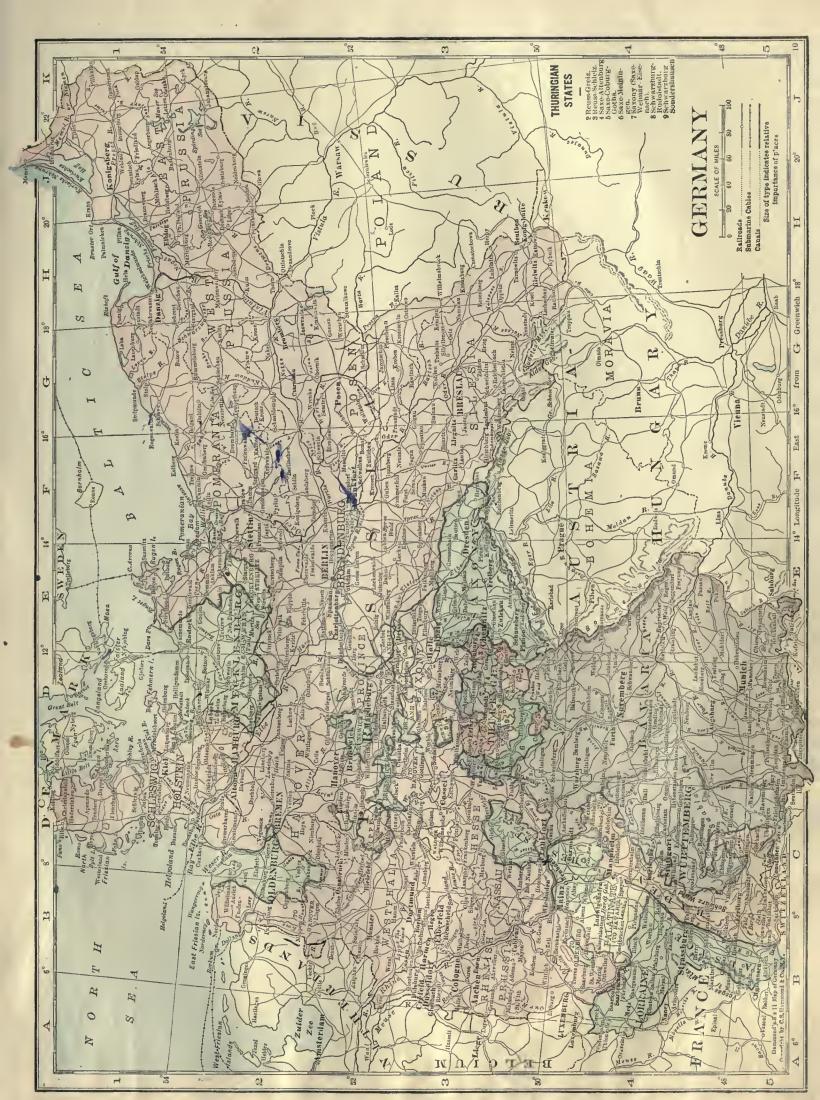


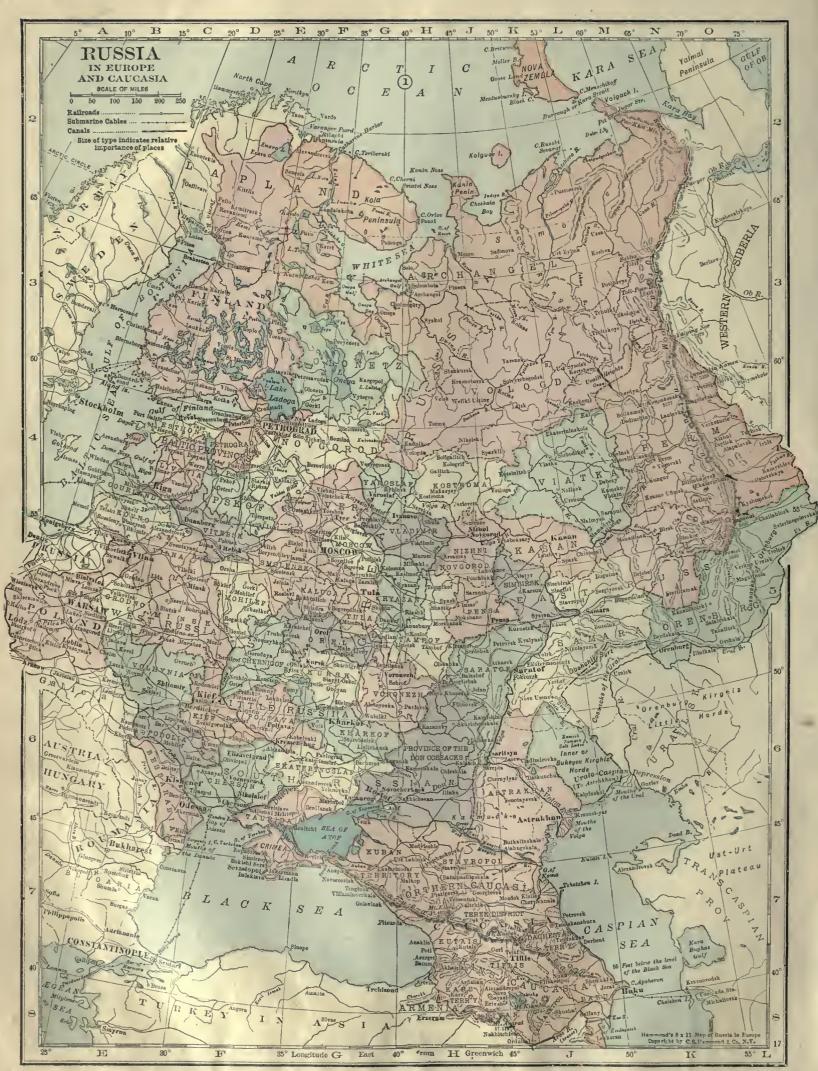


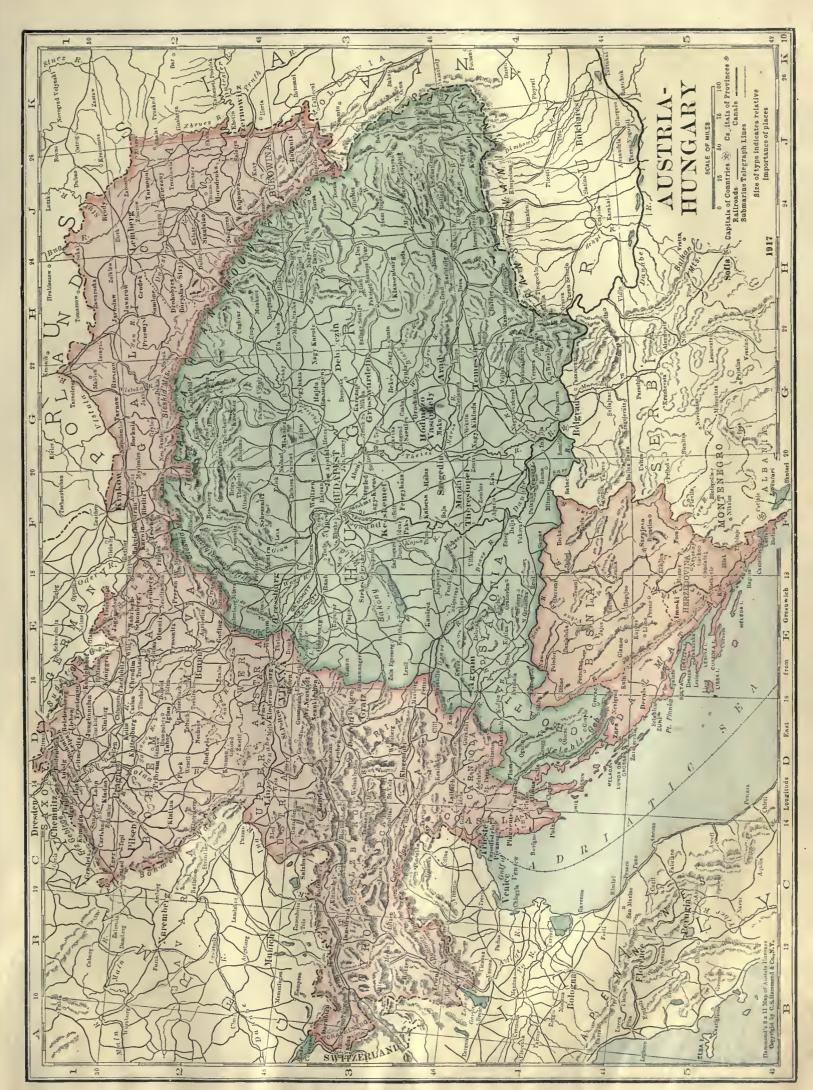


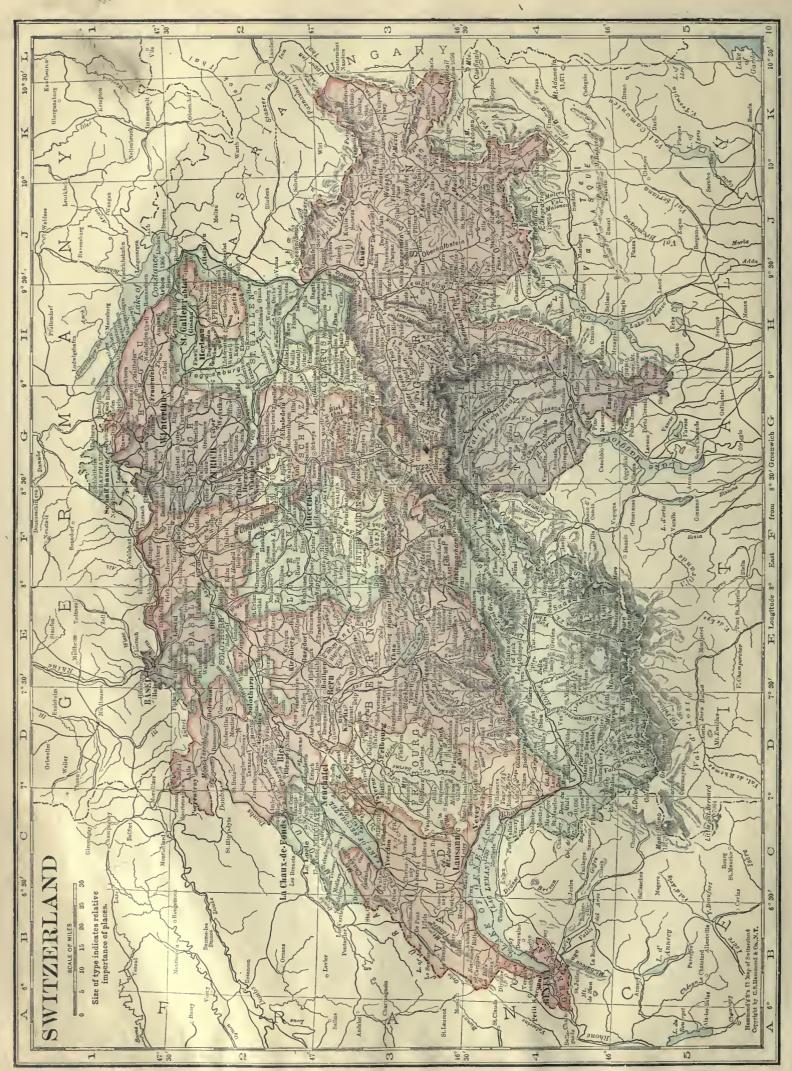




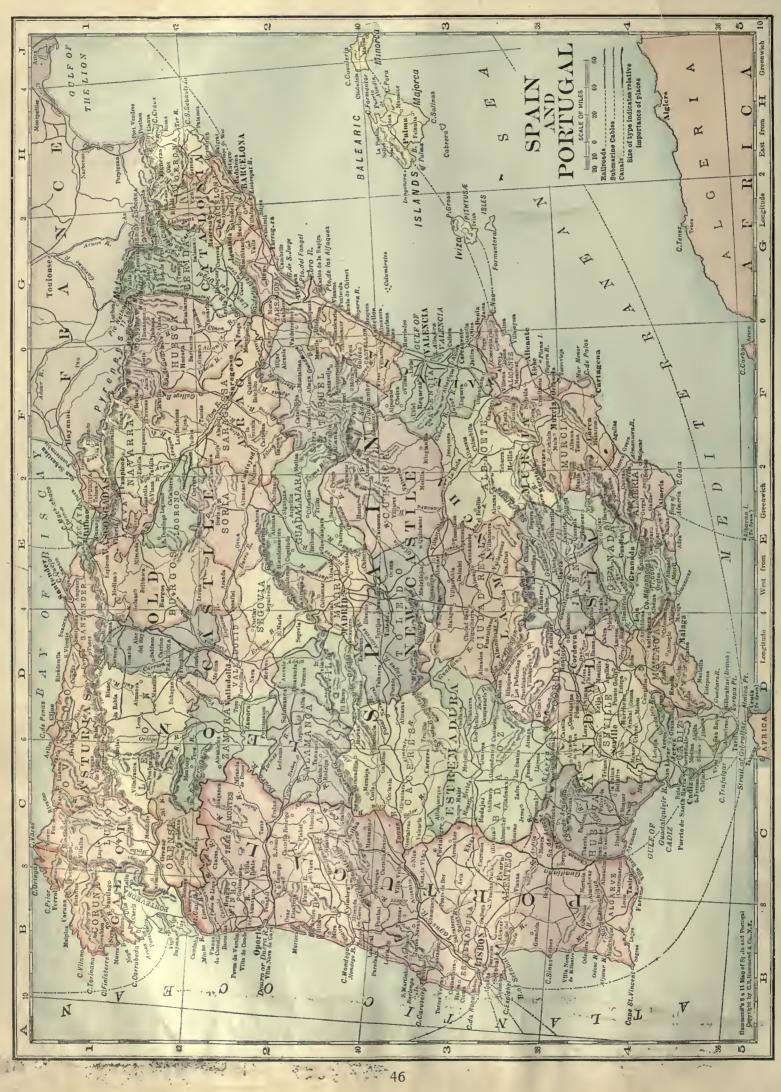


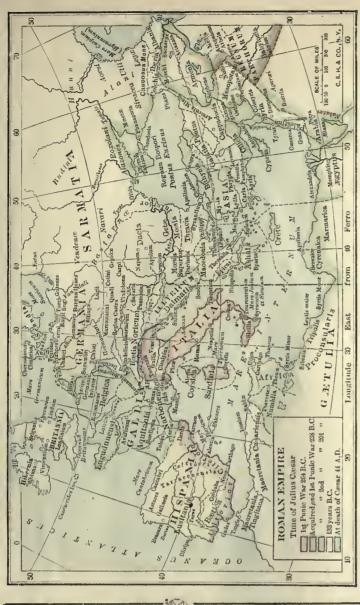






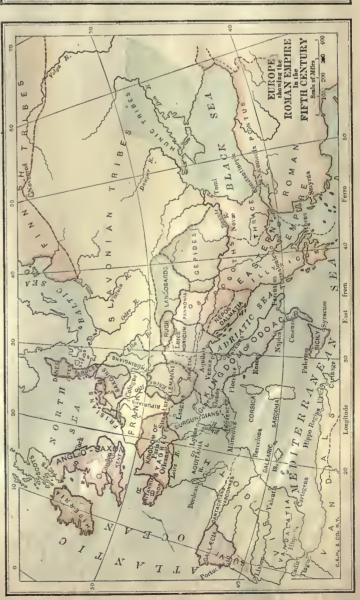


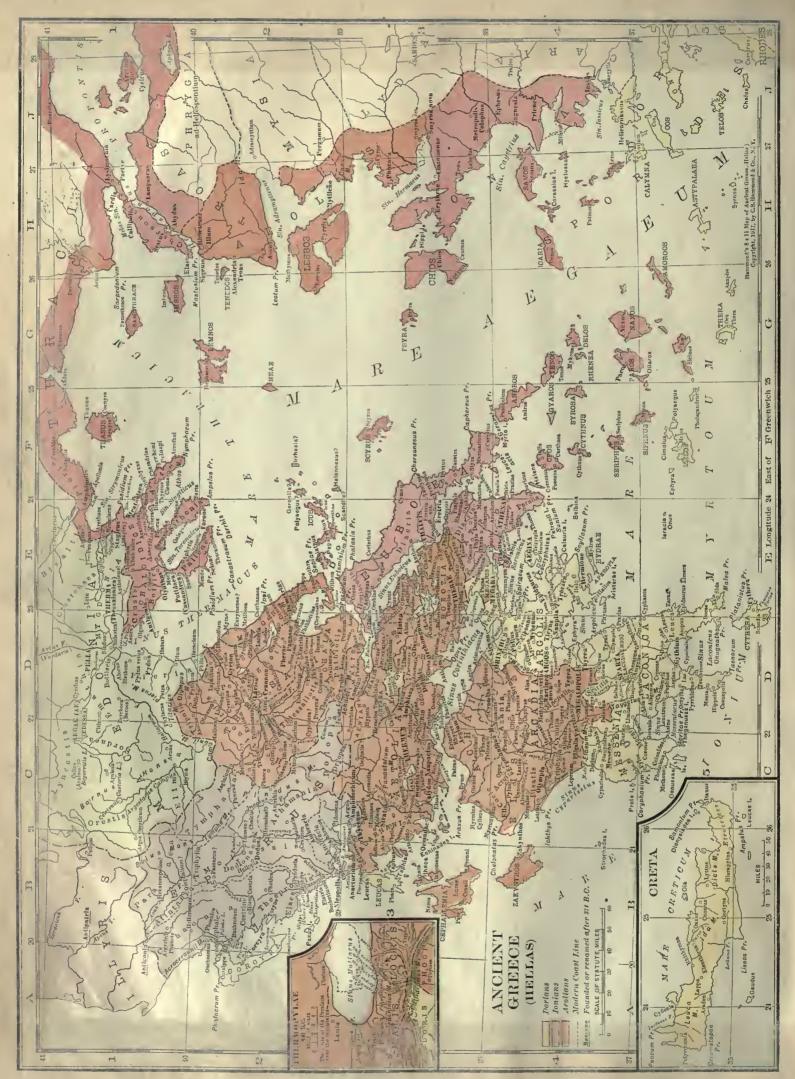


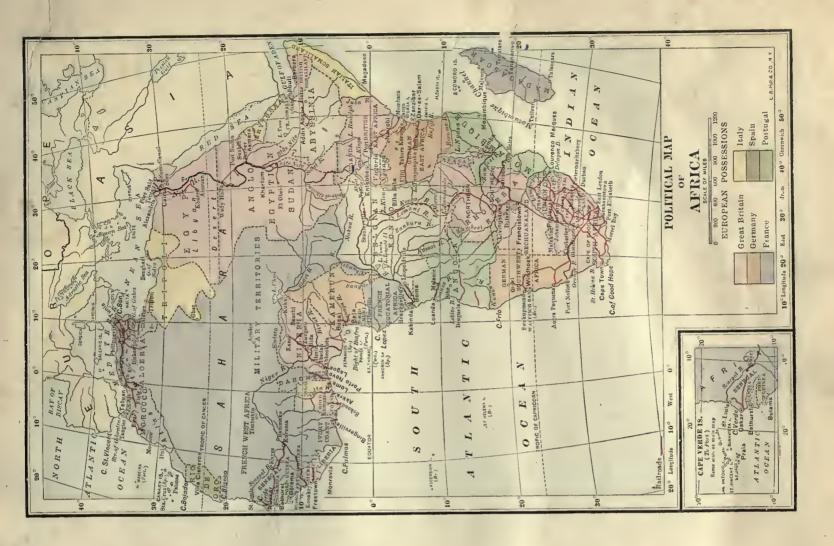


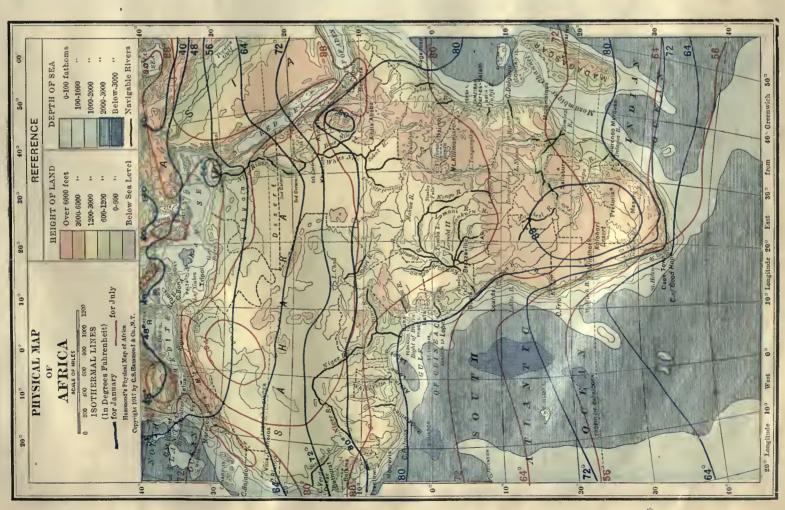


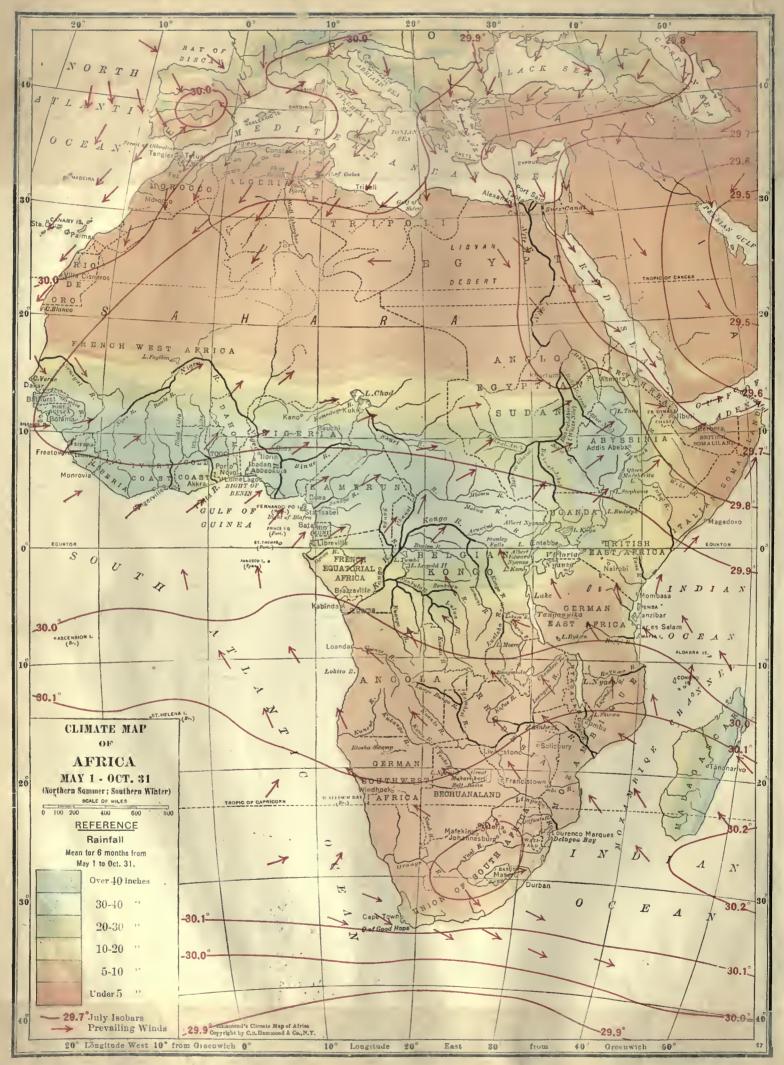


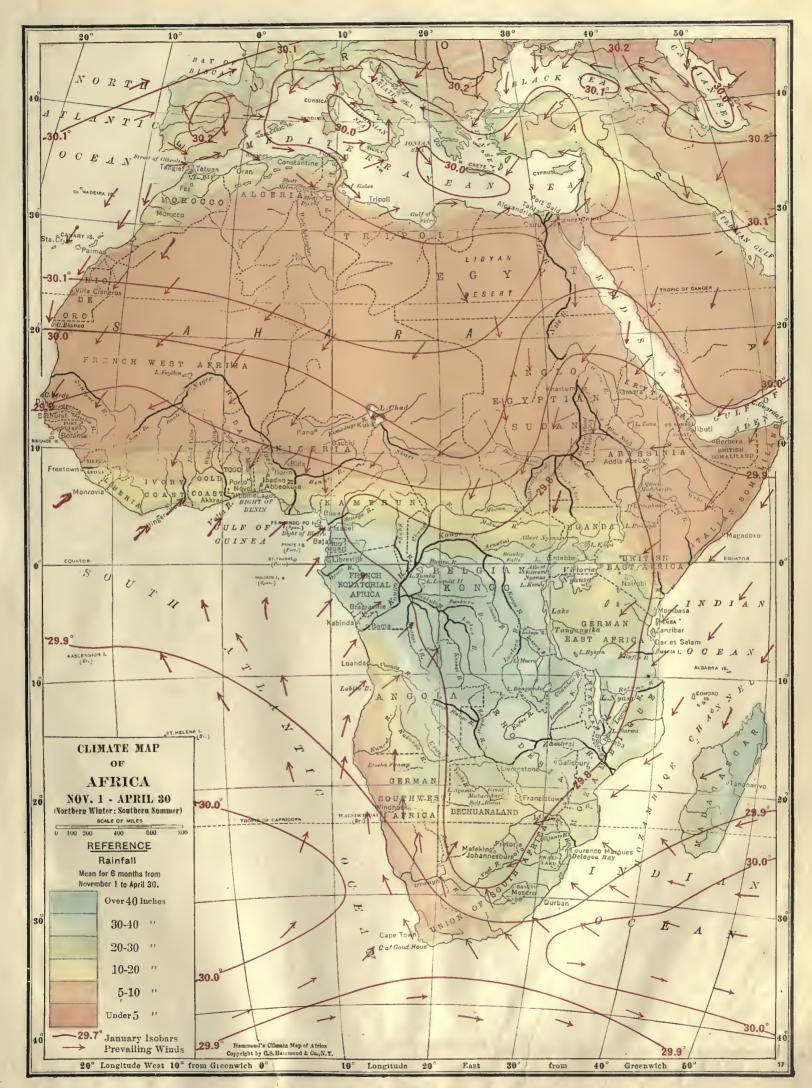


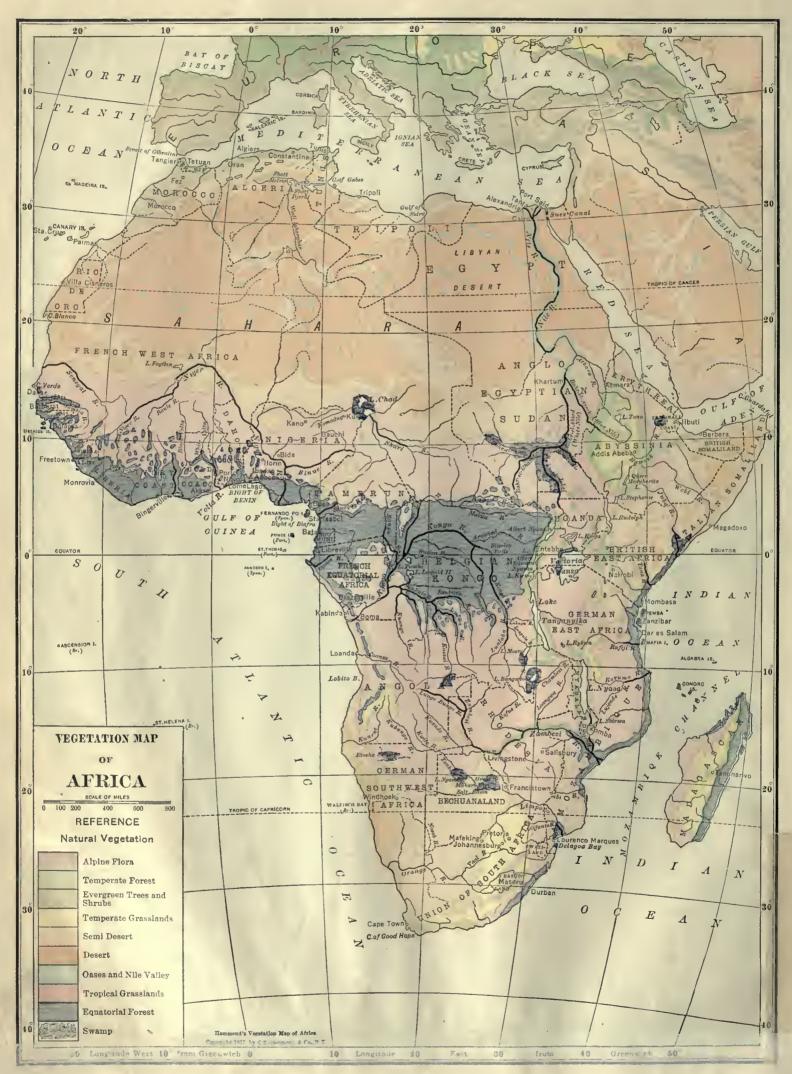


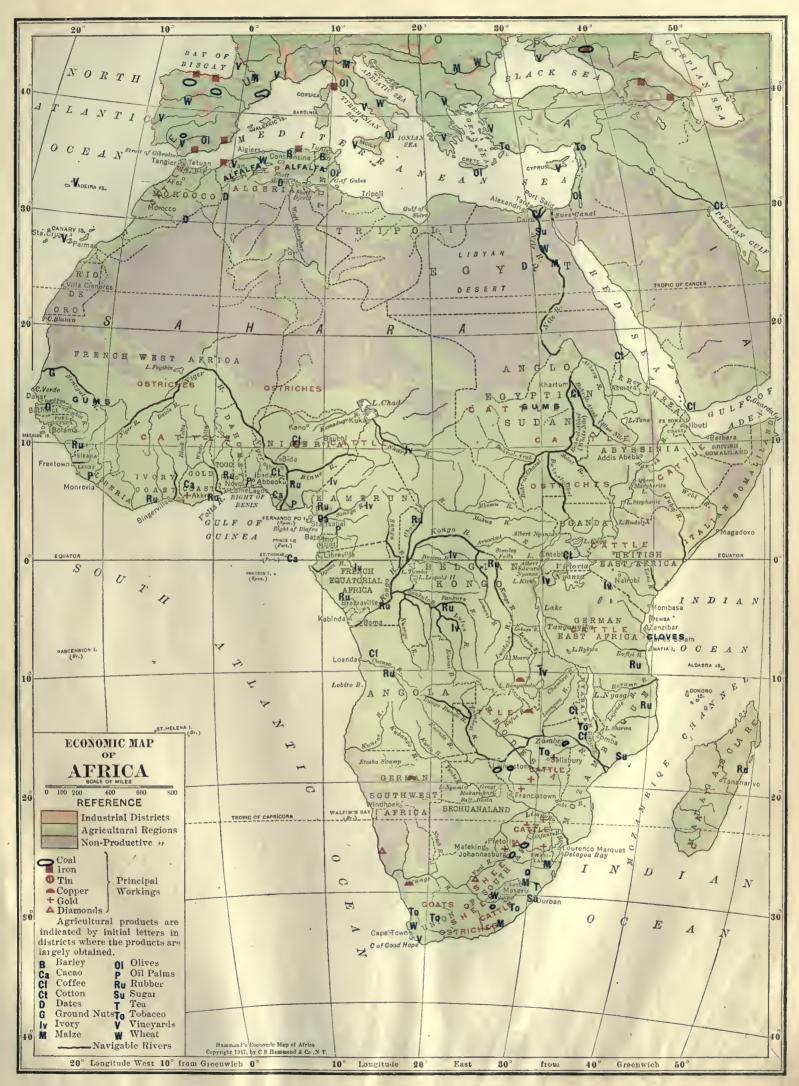


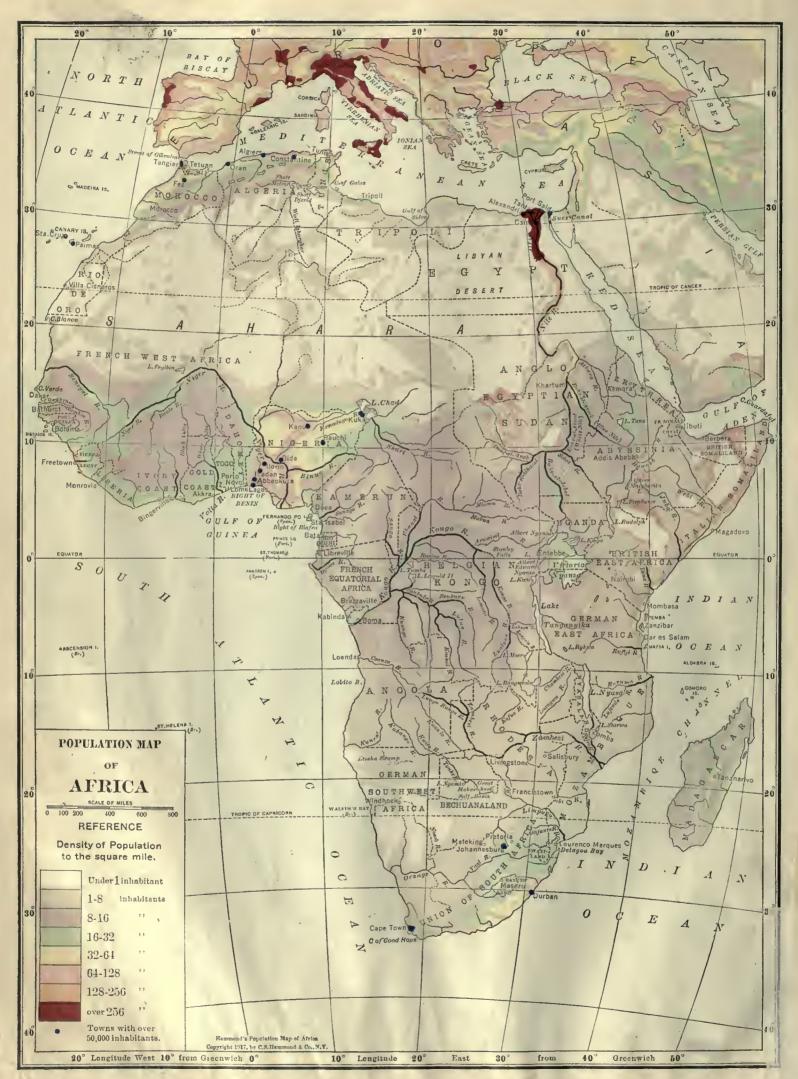


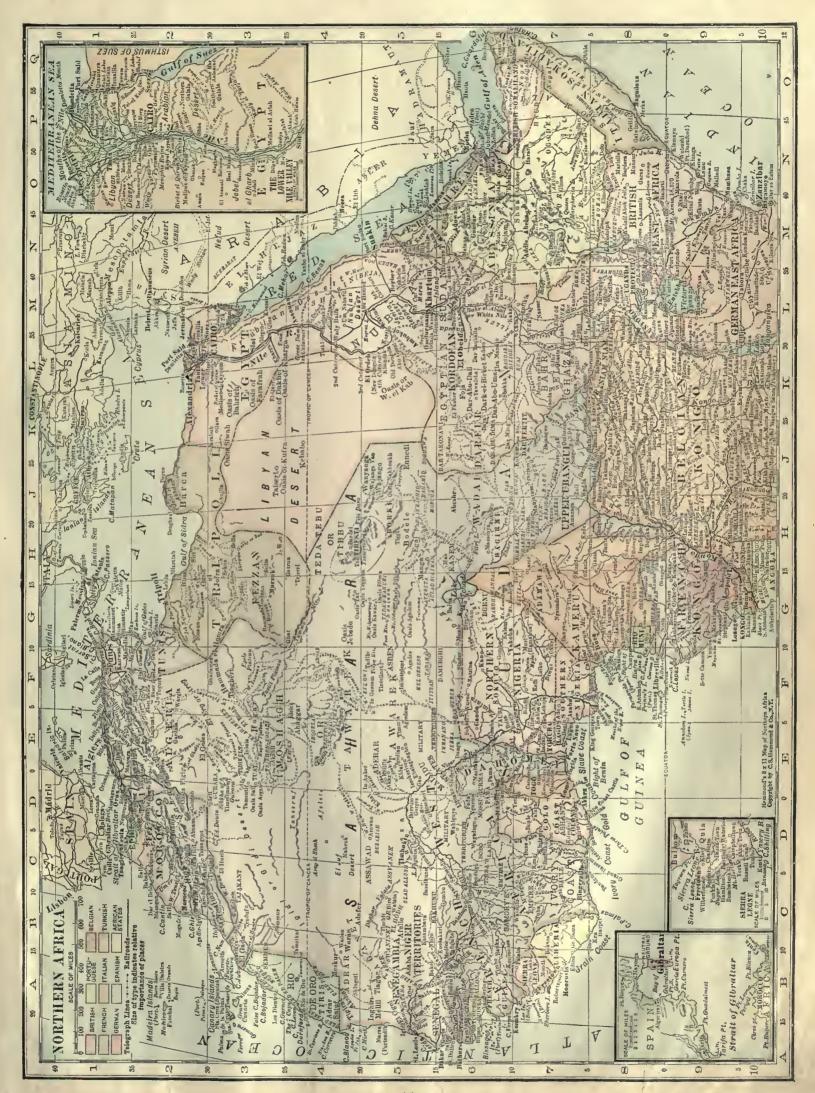


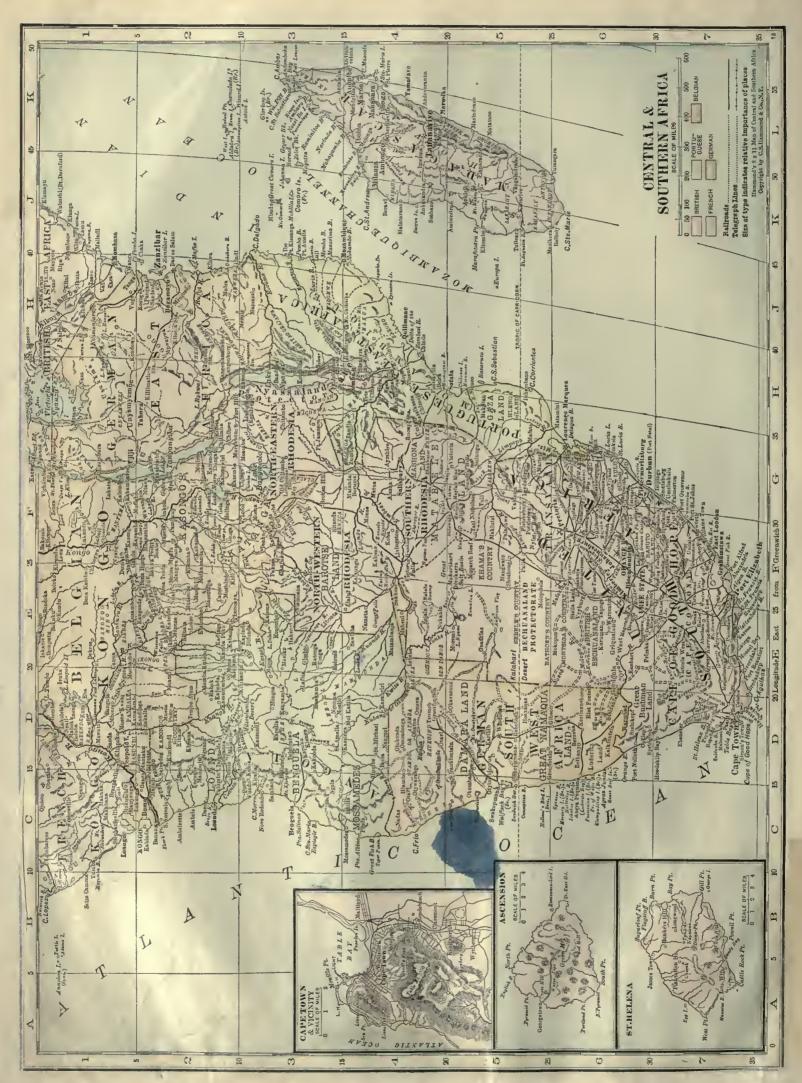


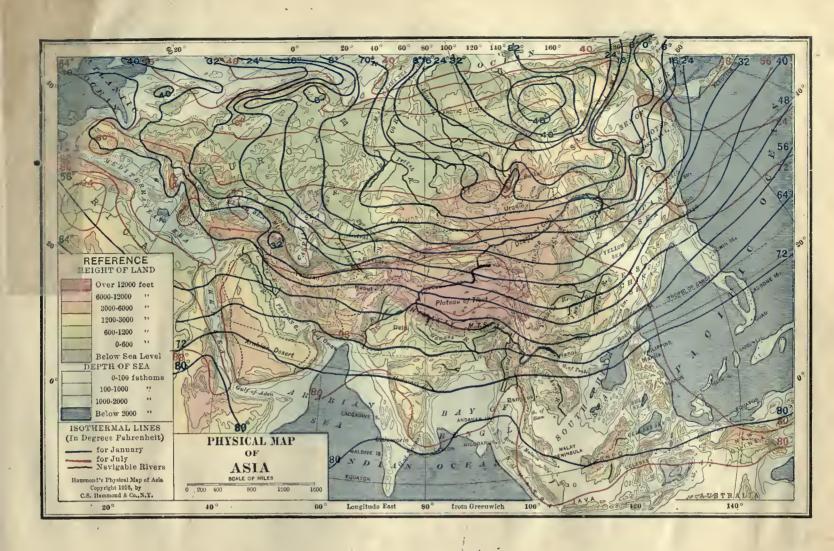


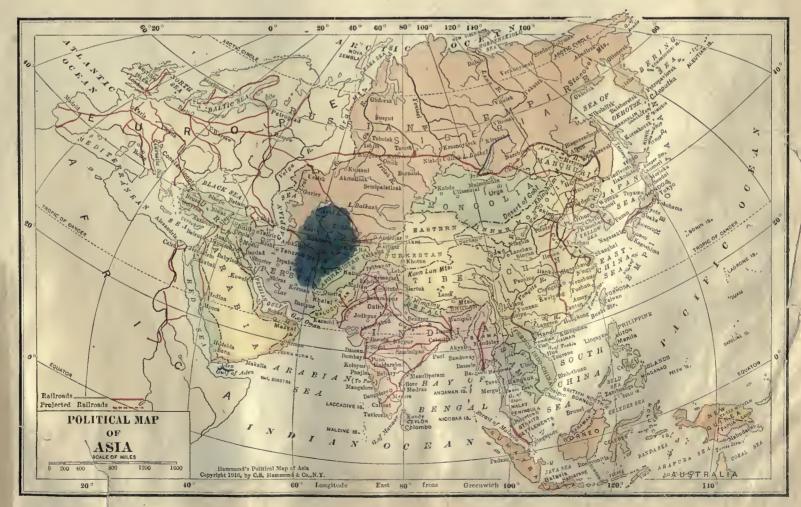


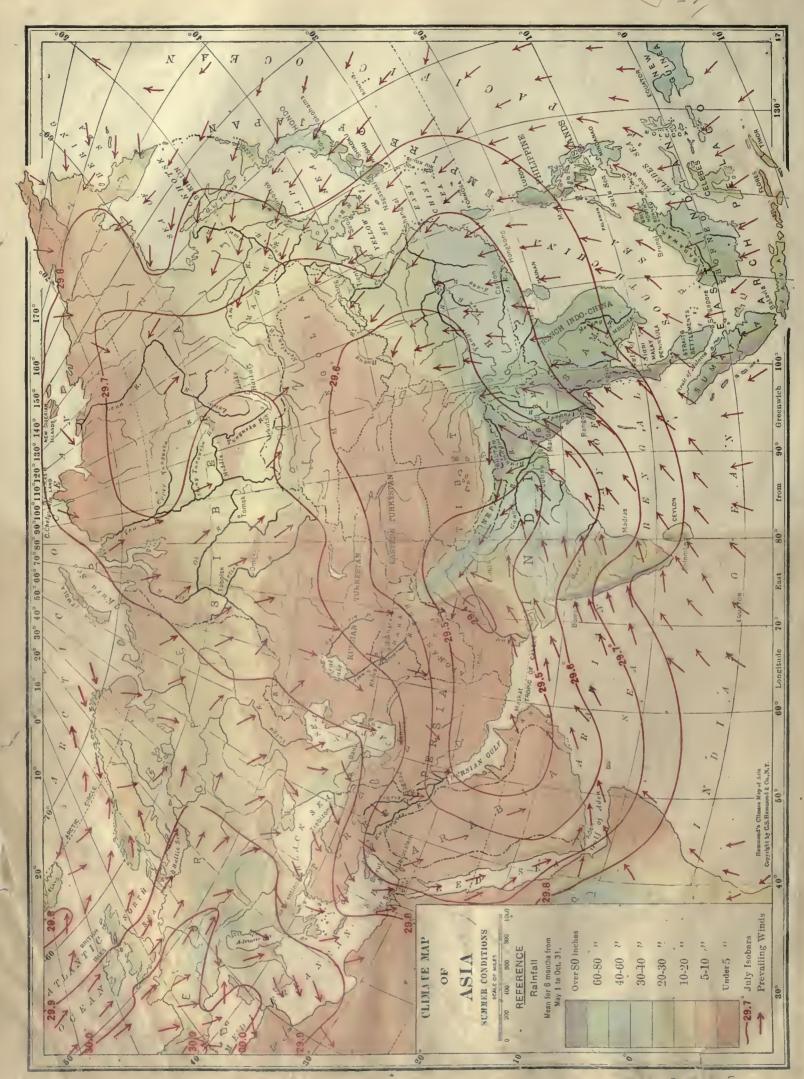


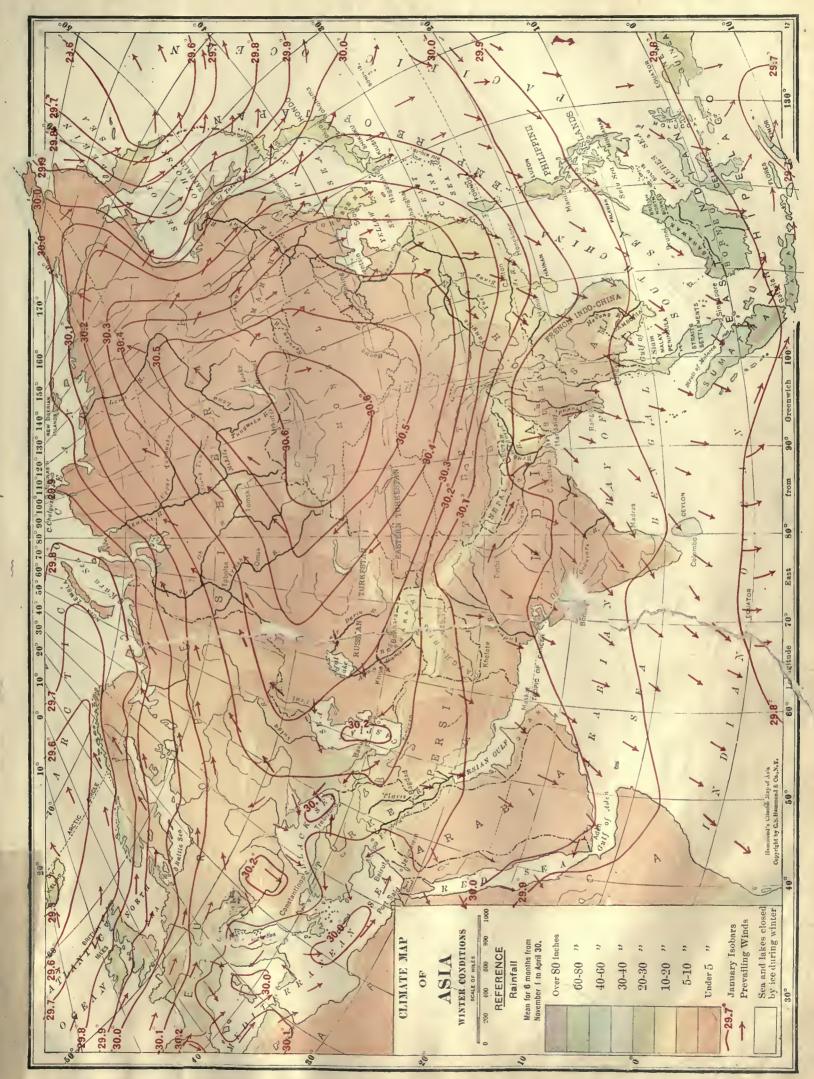


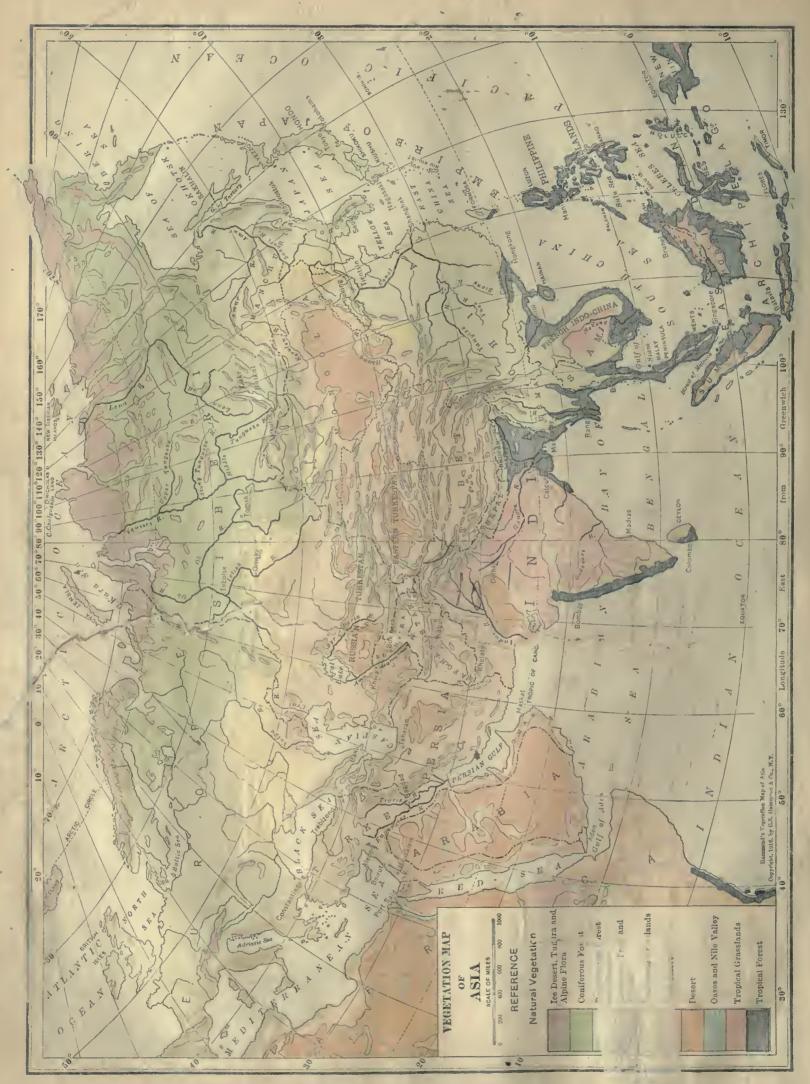




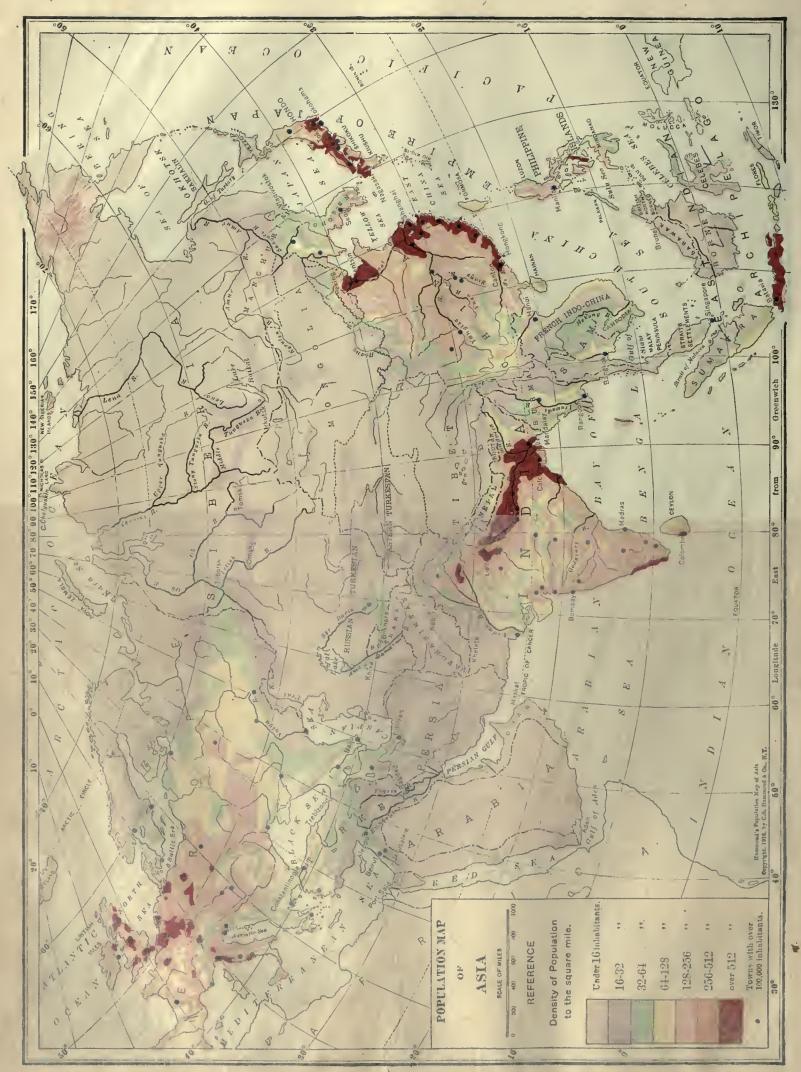




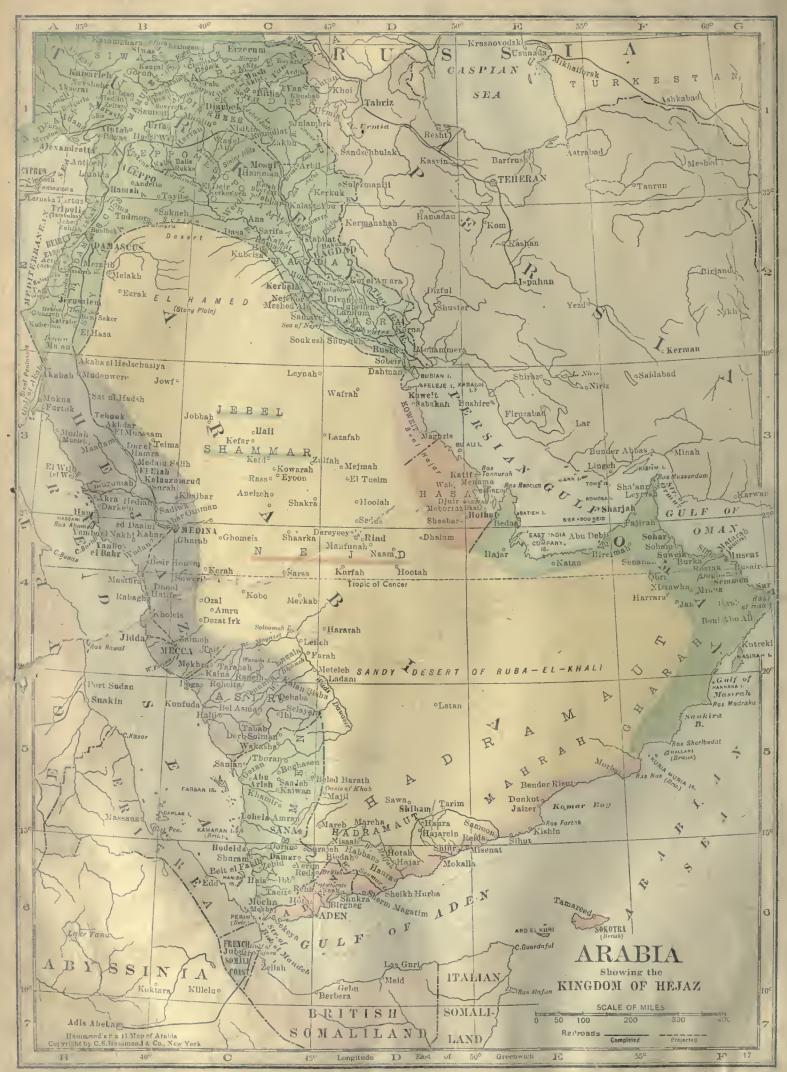


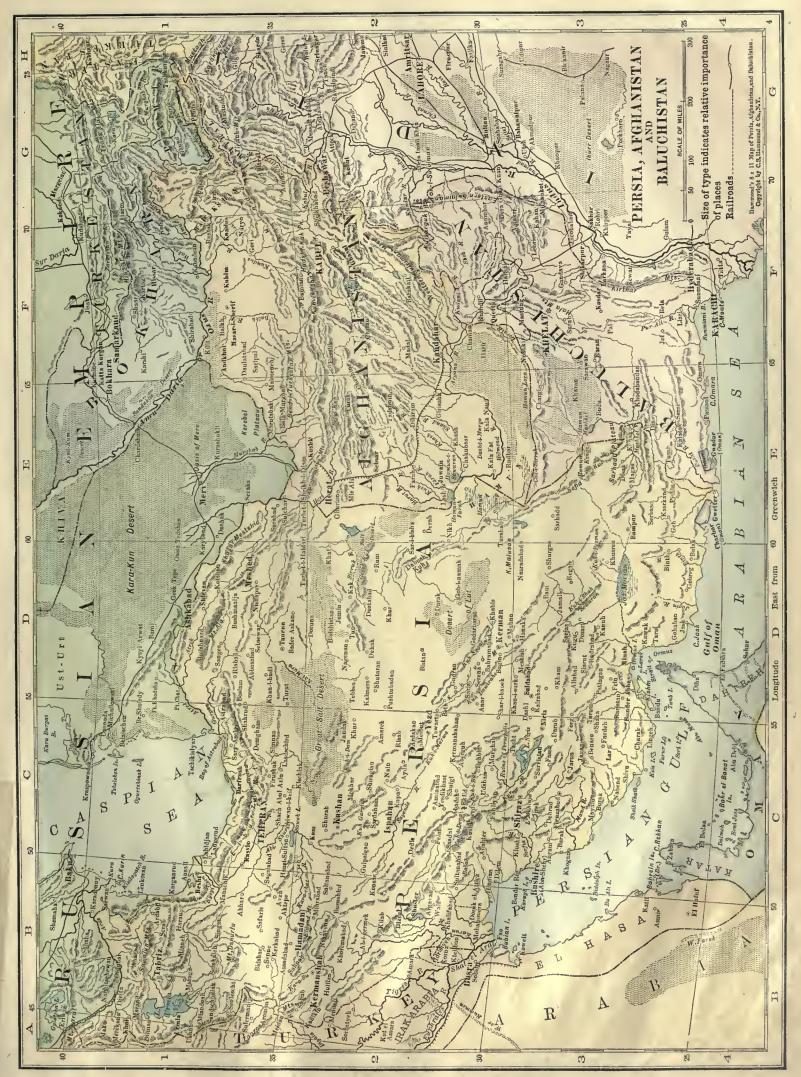




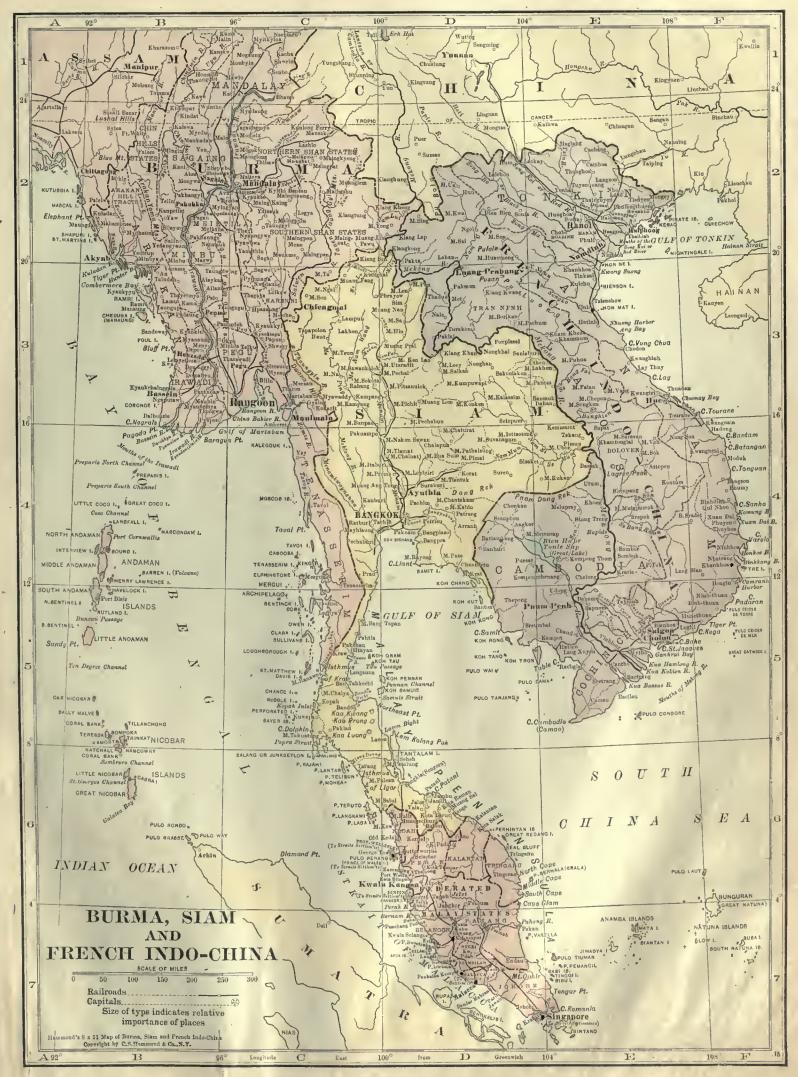


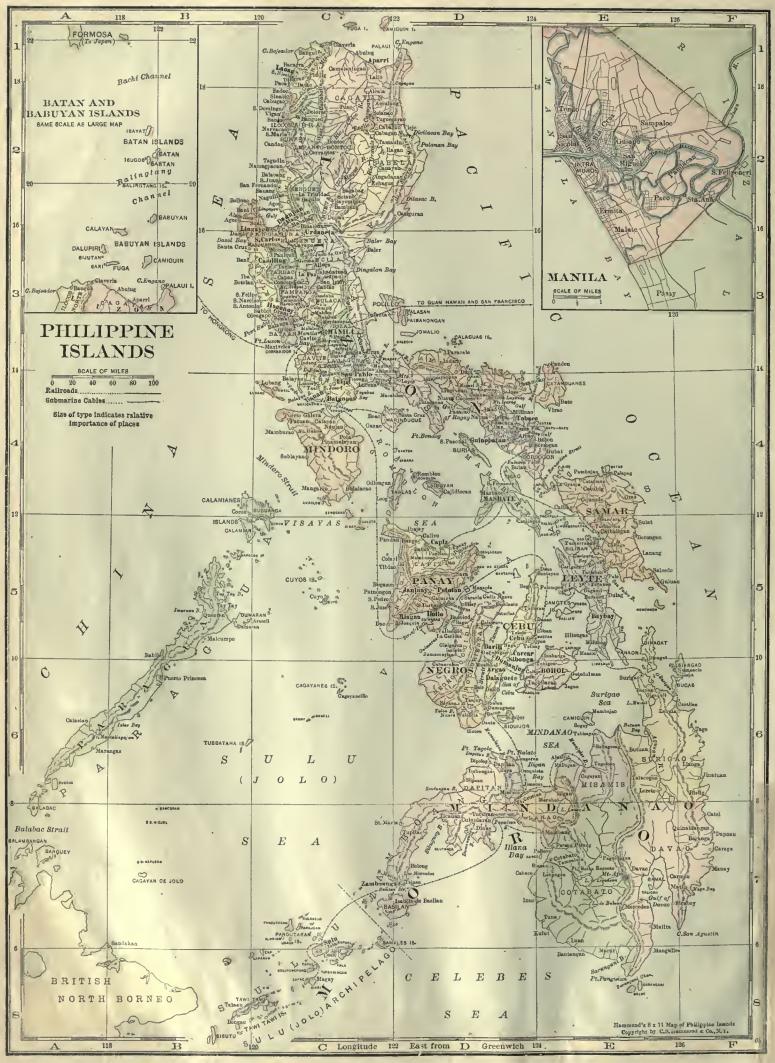


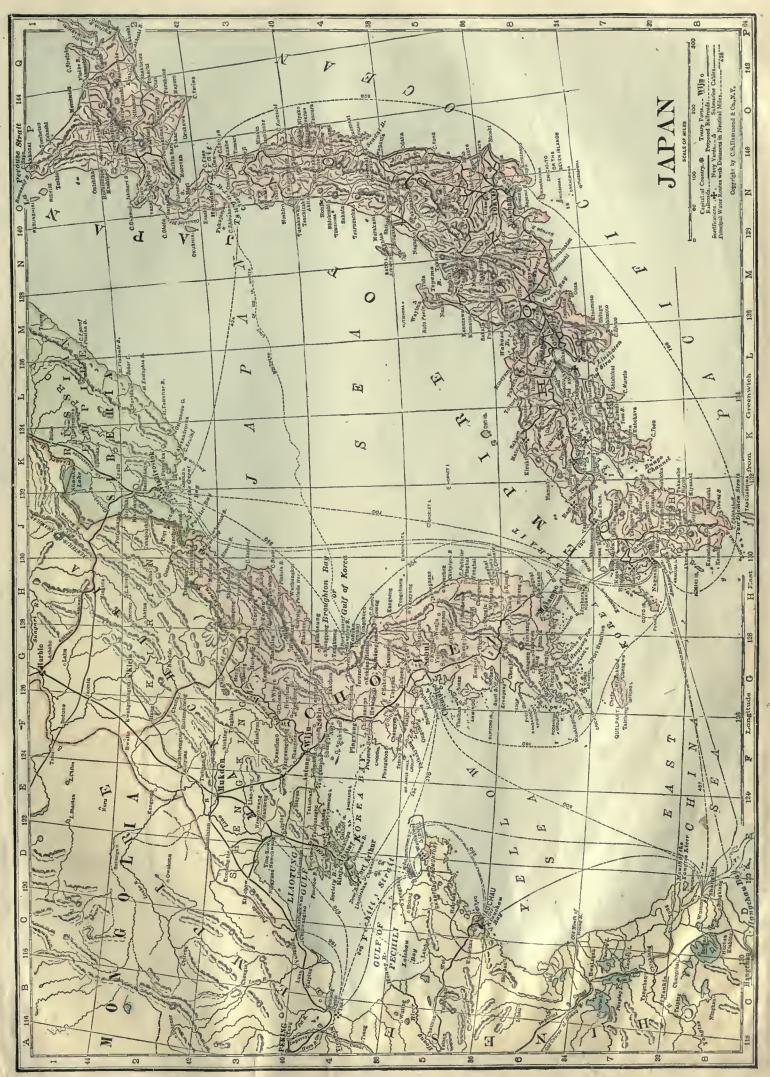


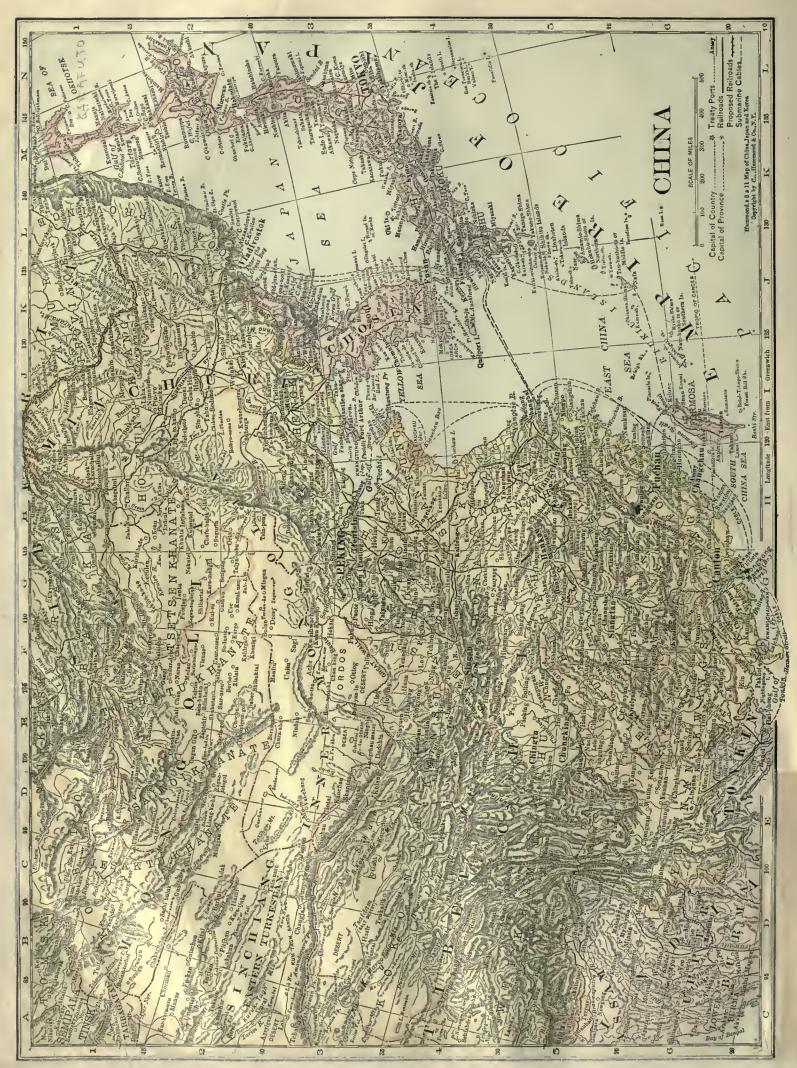


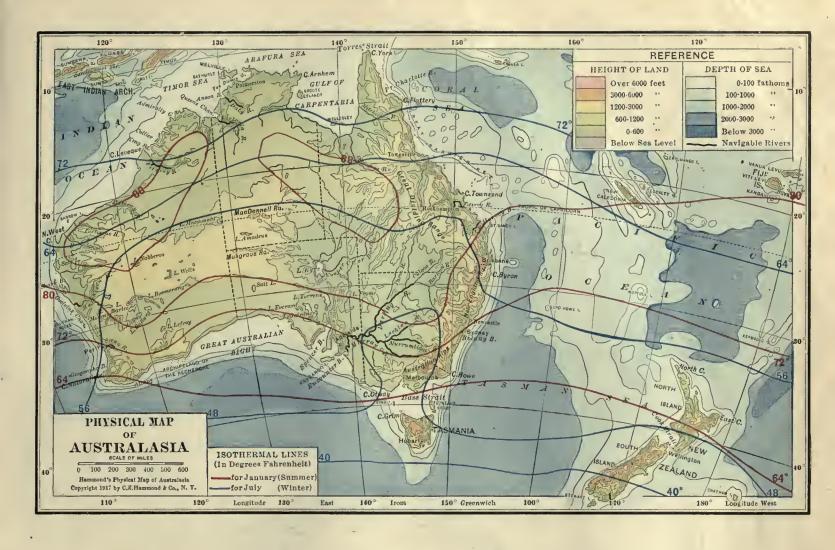


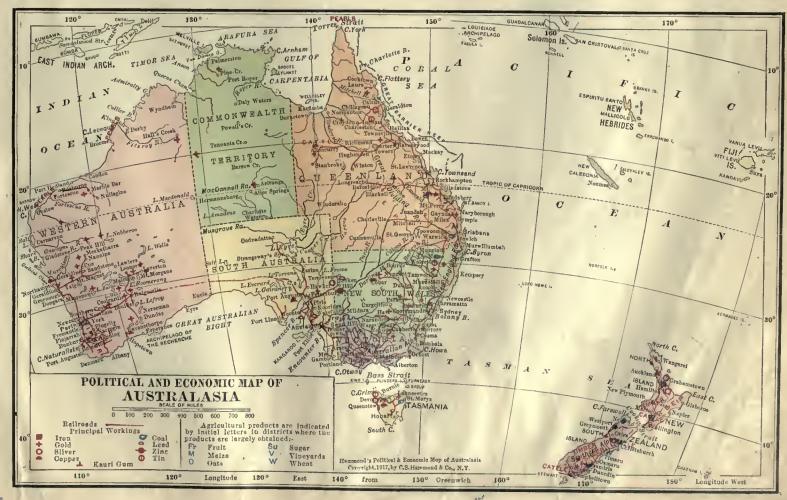


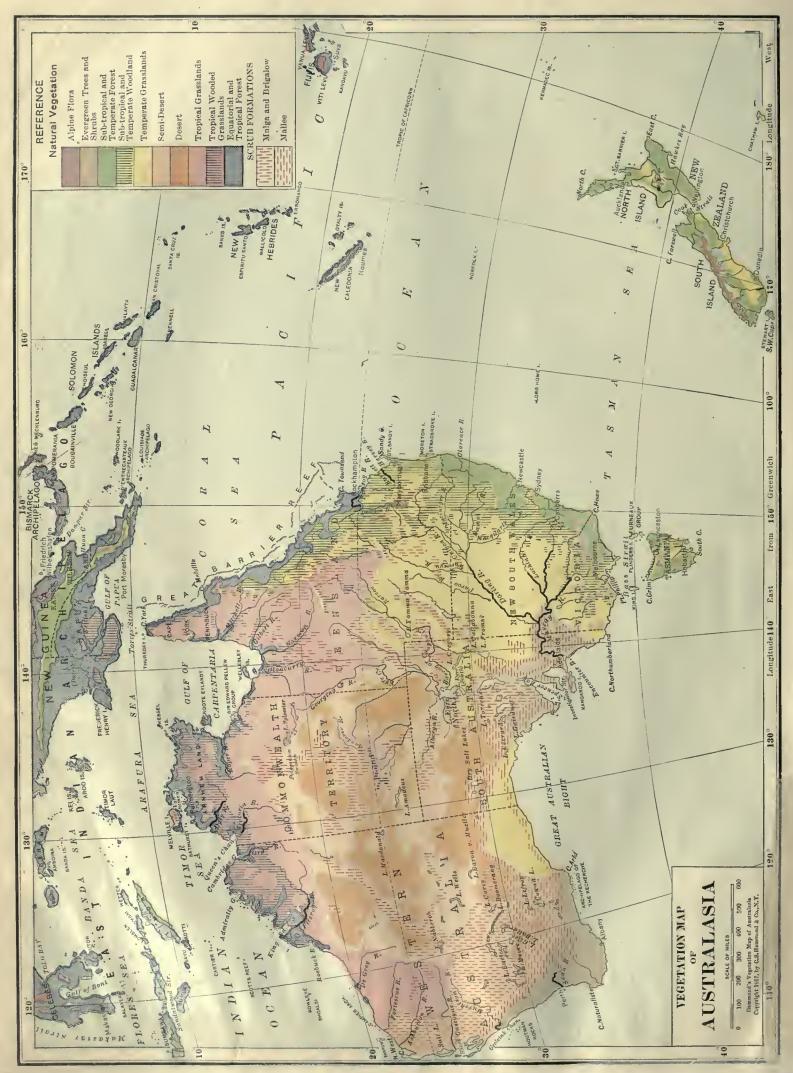


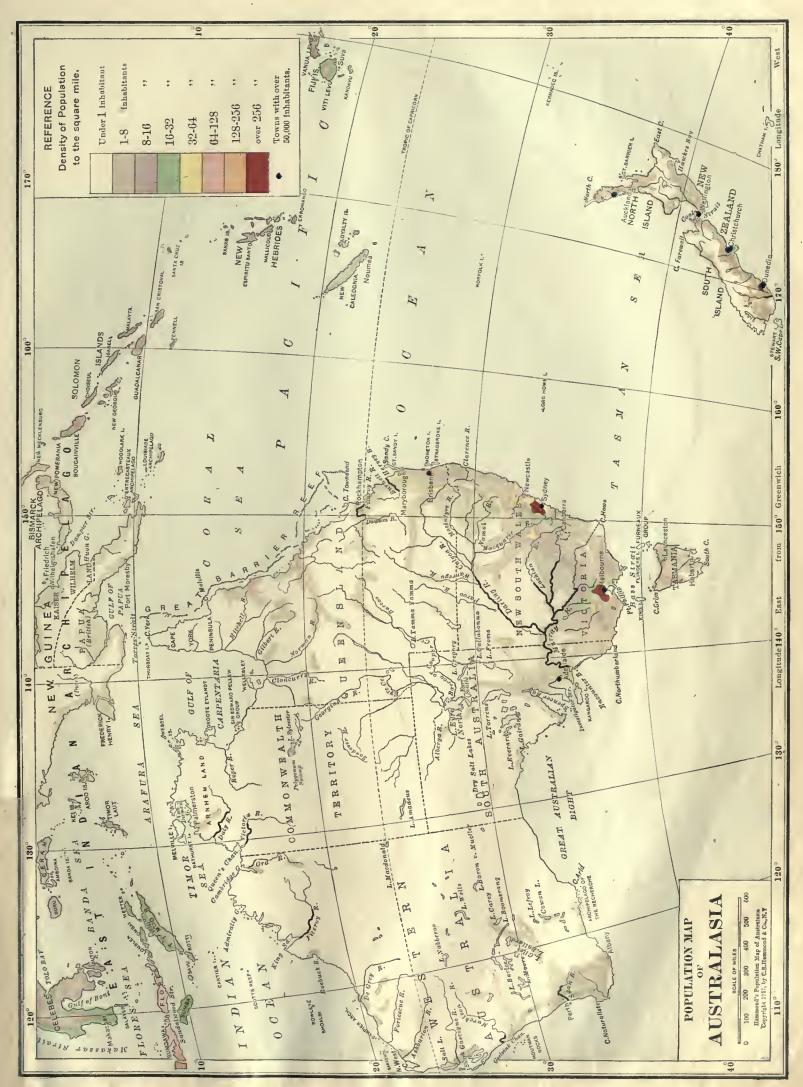


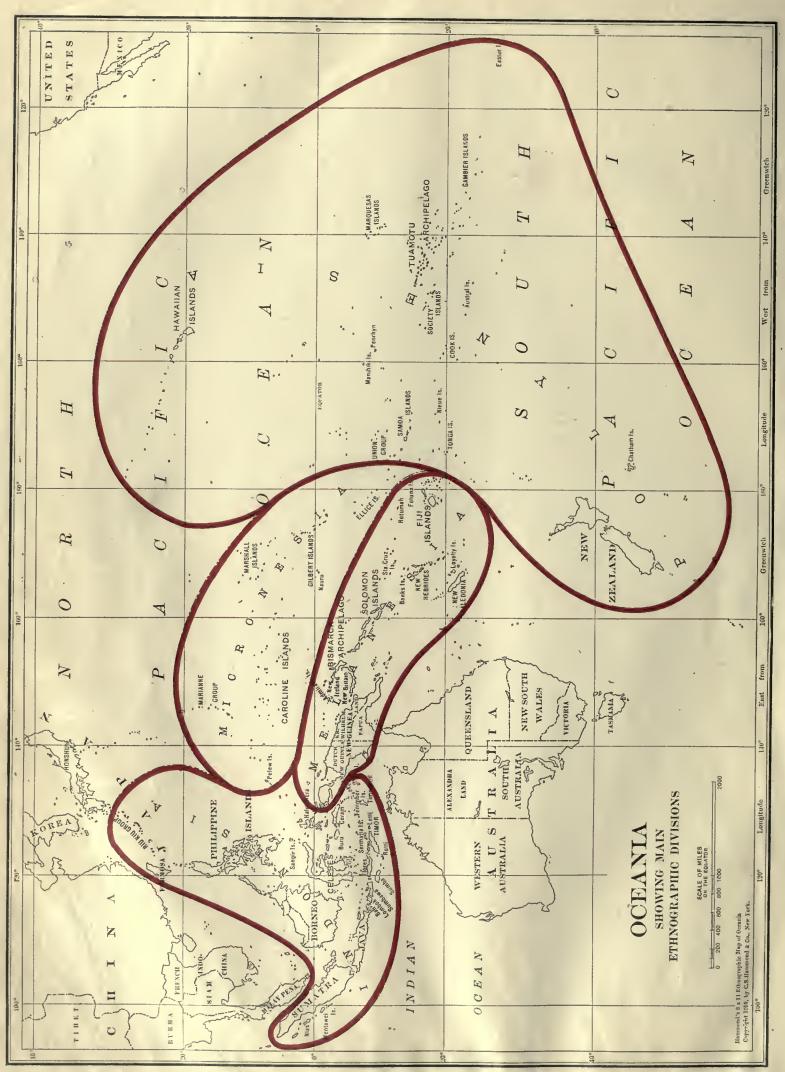


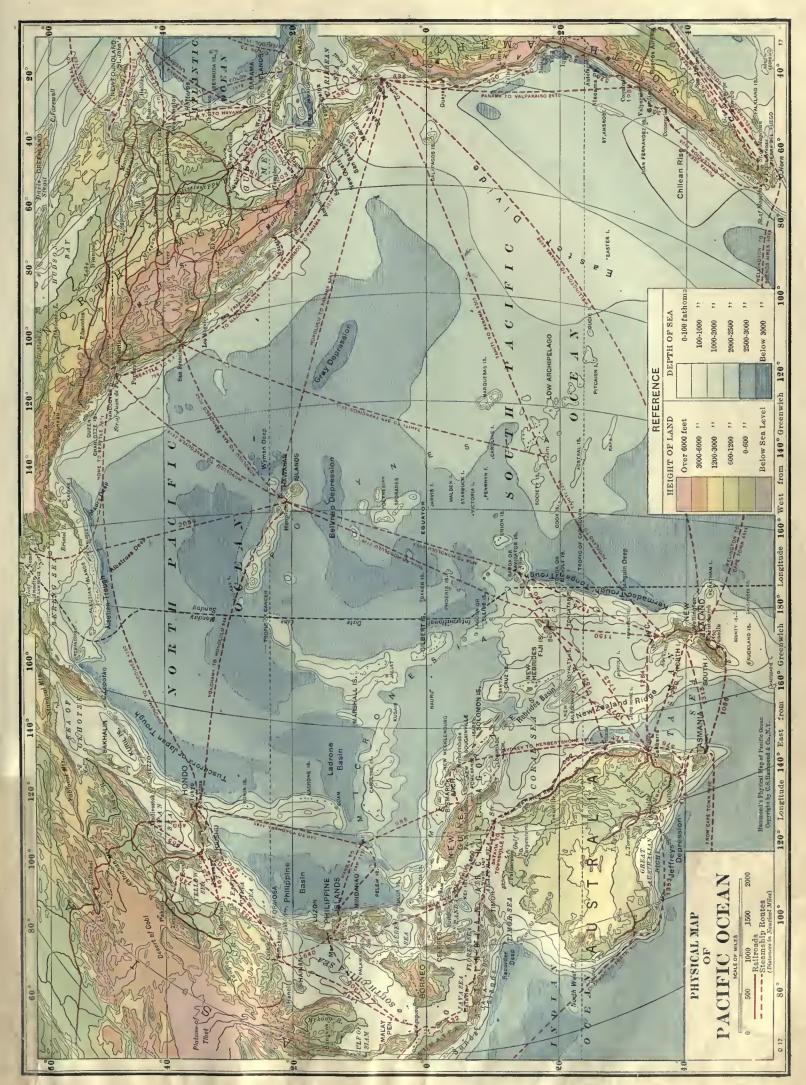






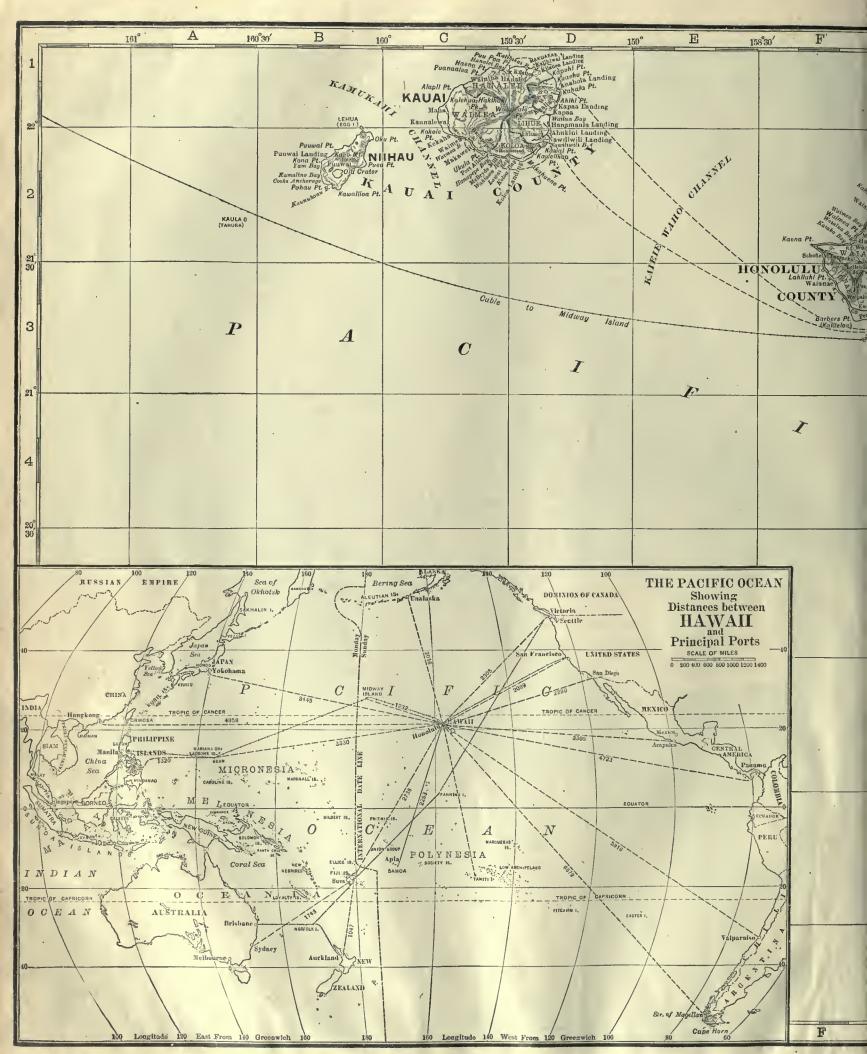


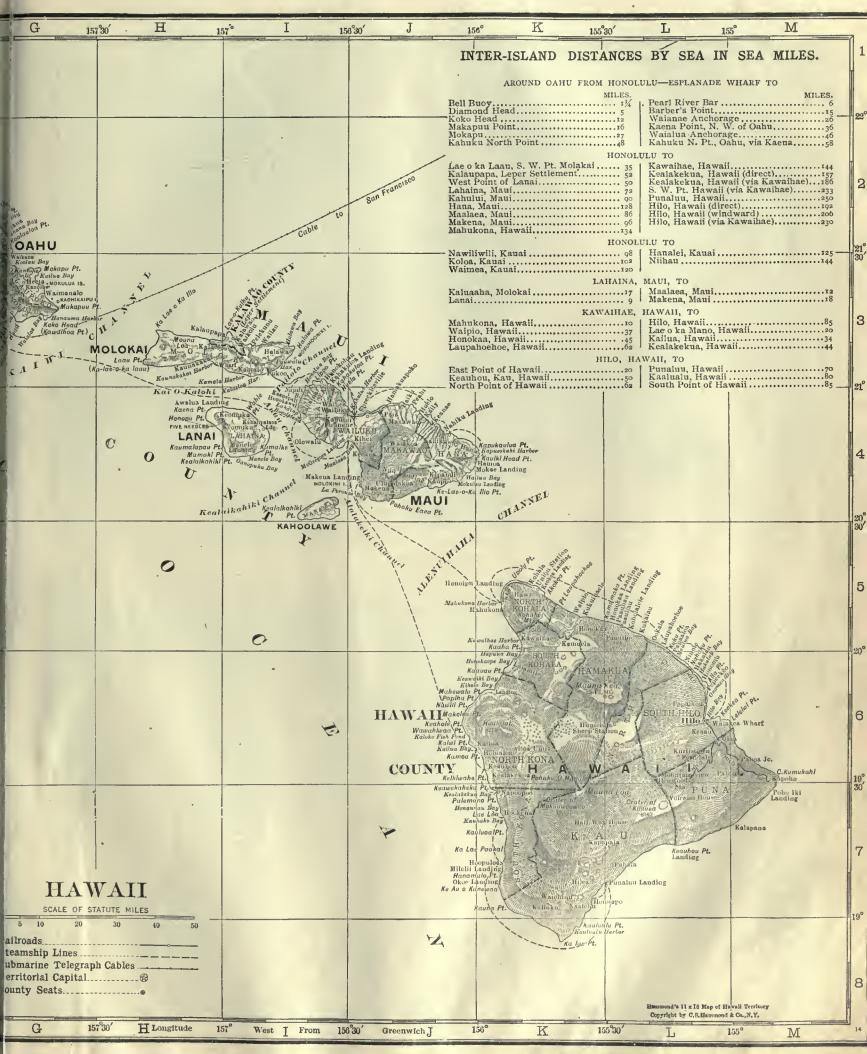






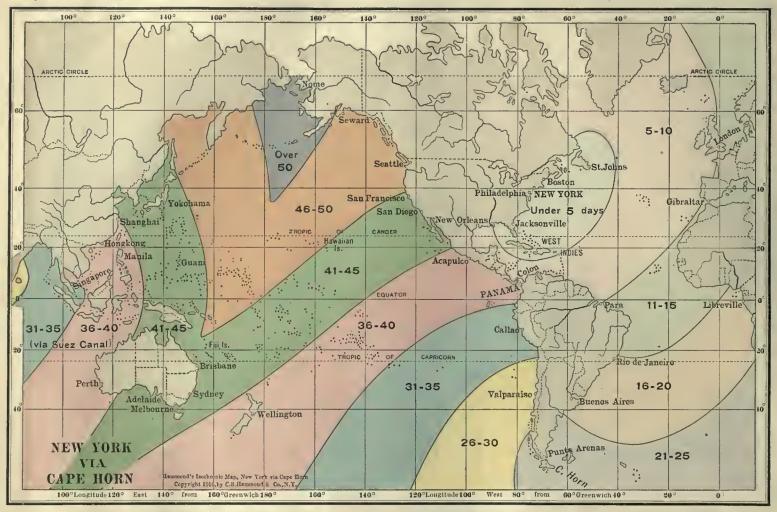


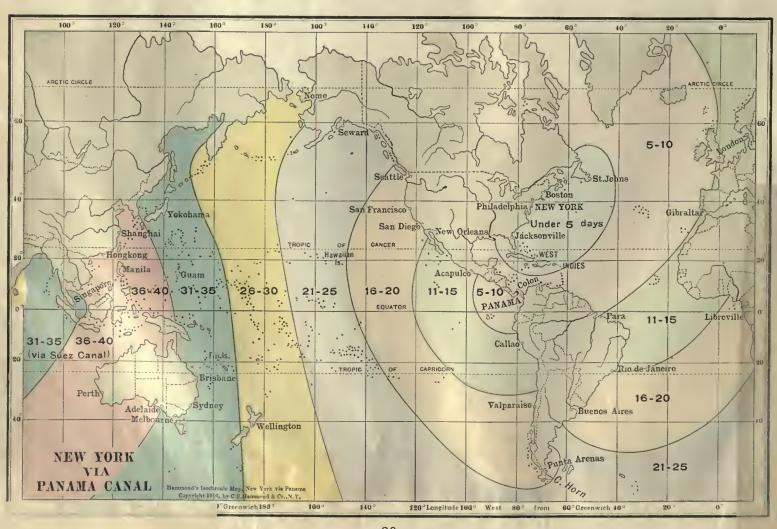


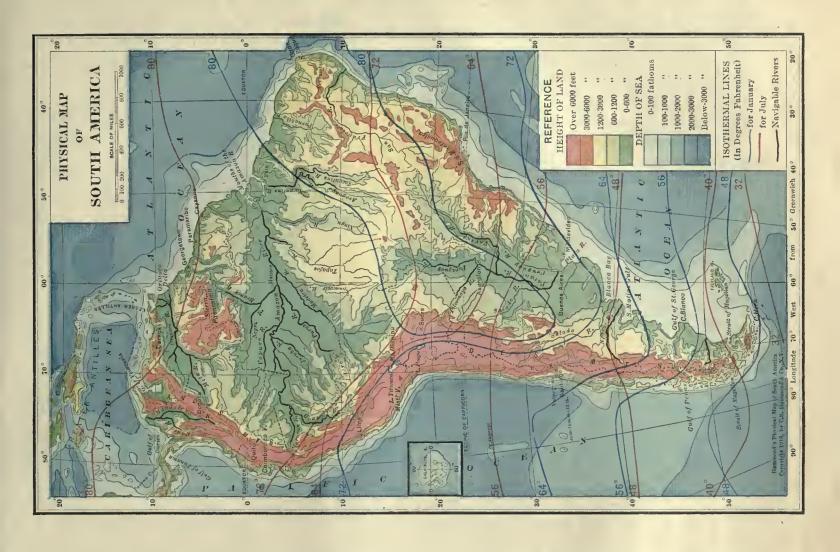


ISOCHRONIC CHARTS

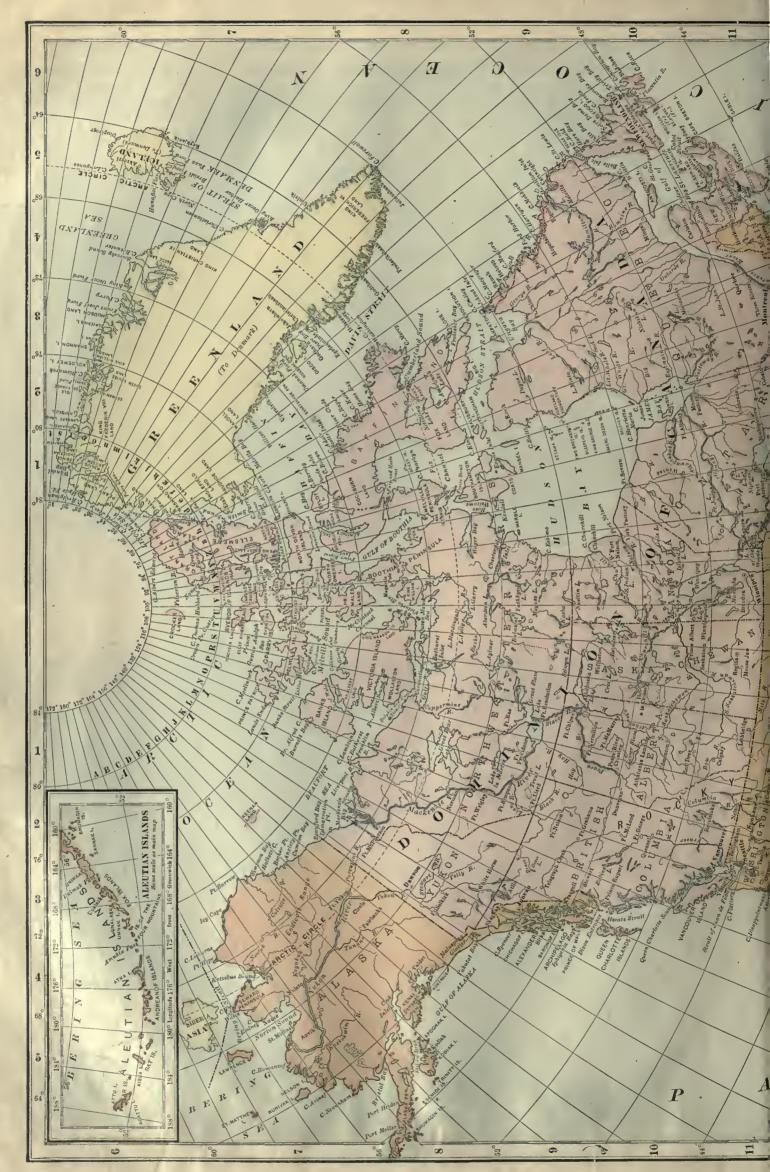
The zones of color show the number of days taken to reach certain regions from the Port of New York before and after the completion of the Panama Canal. For comparative purposes the basis of three hundred nautical miles steaming per day has been adopted, each zone of color representing five days or 1500 miles.

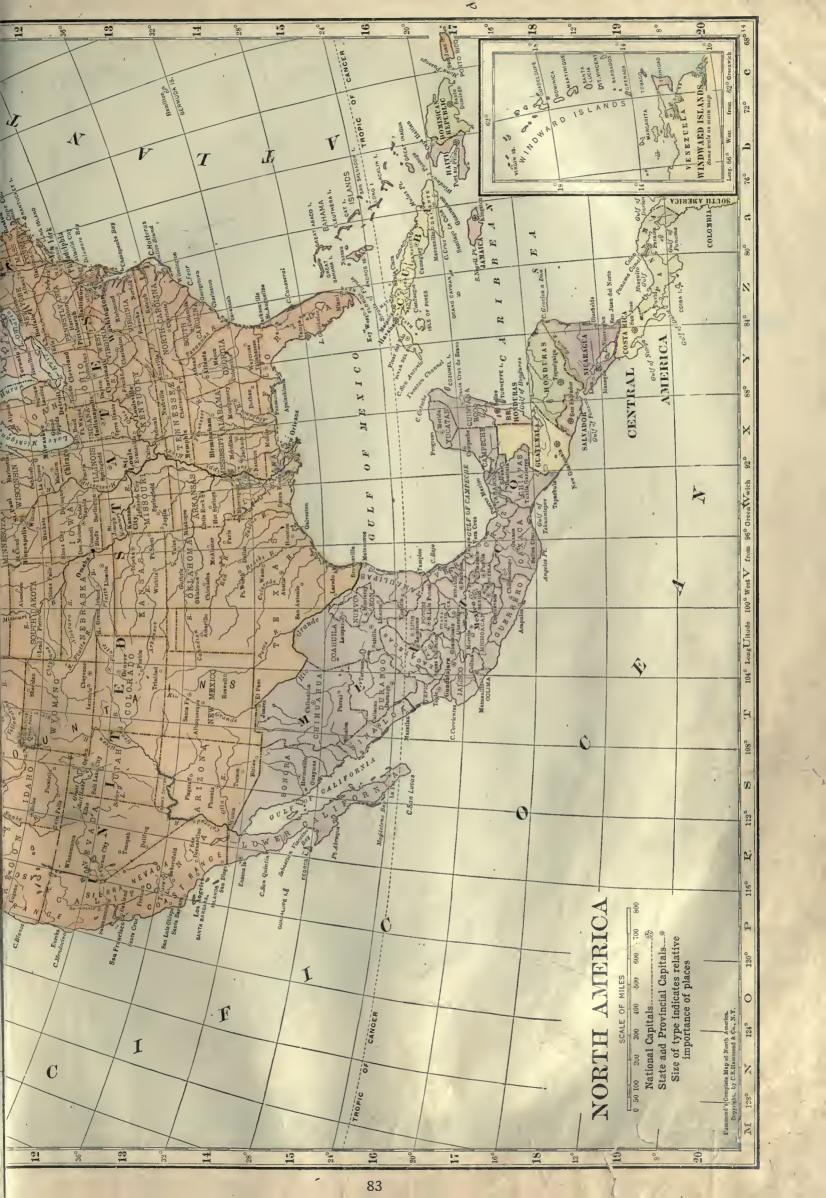


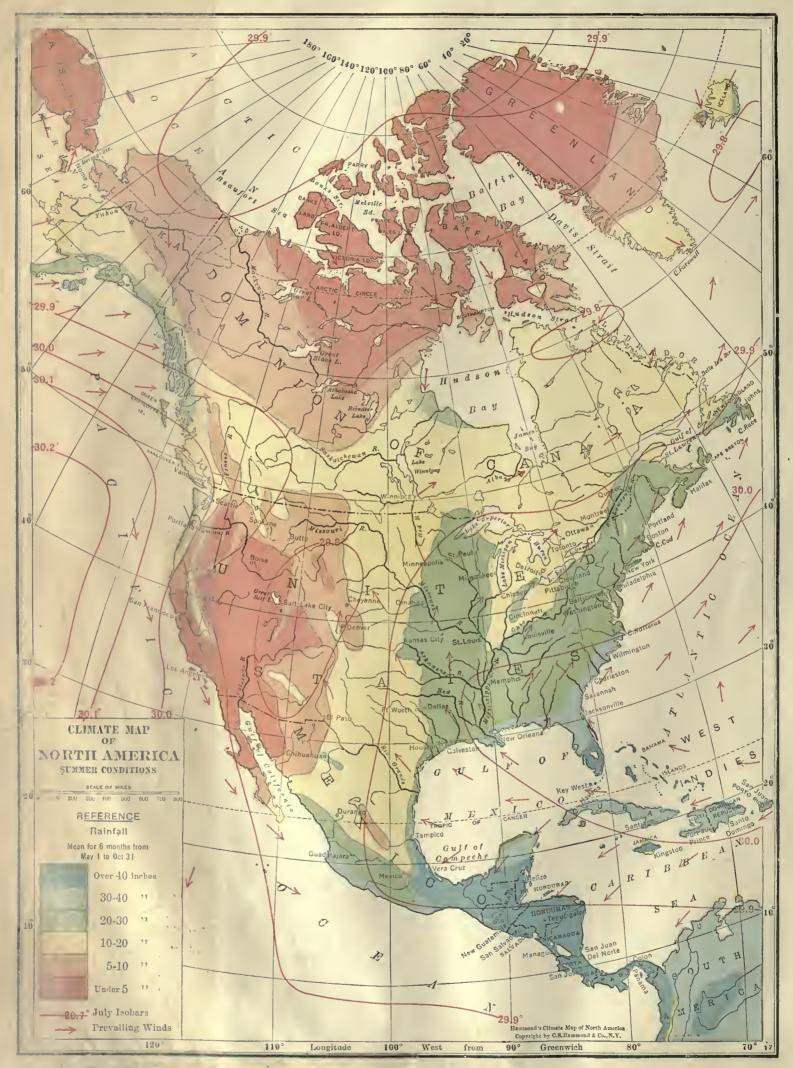


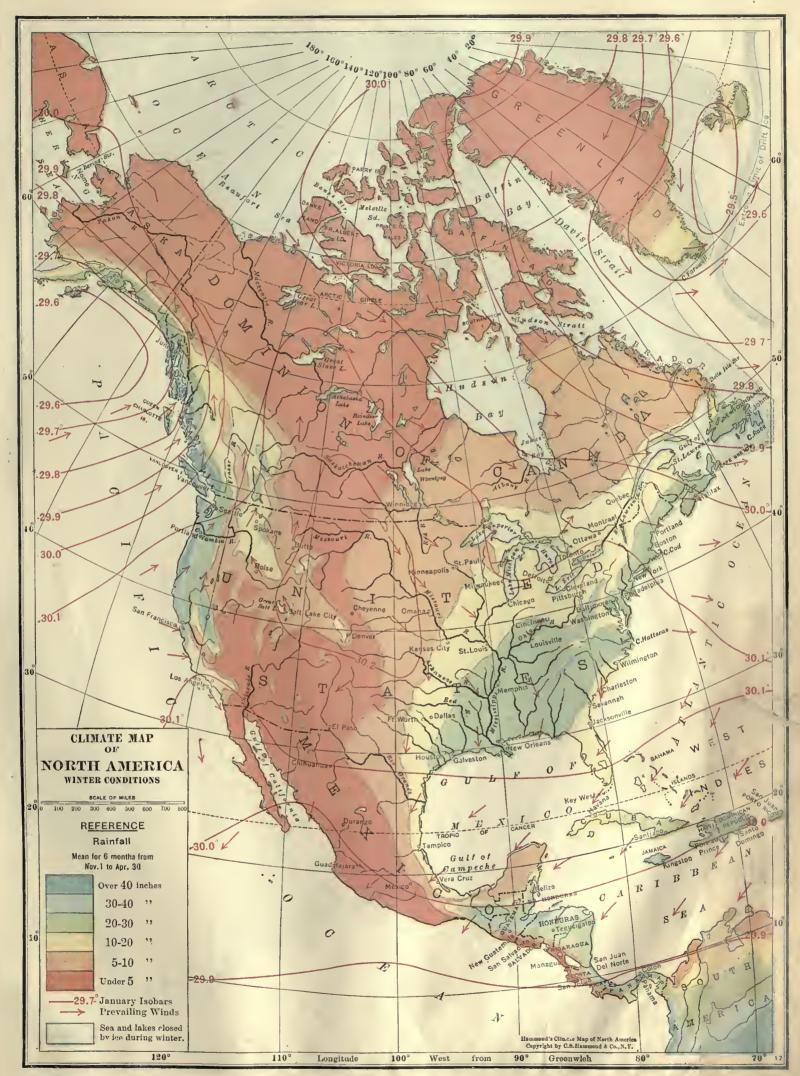










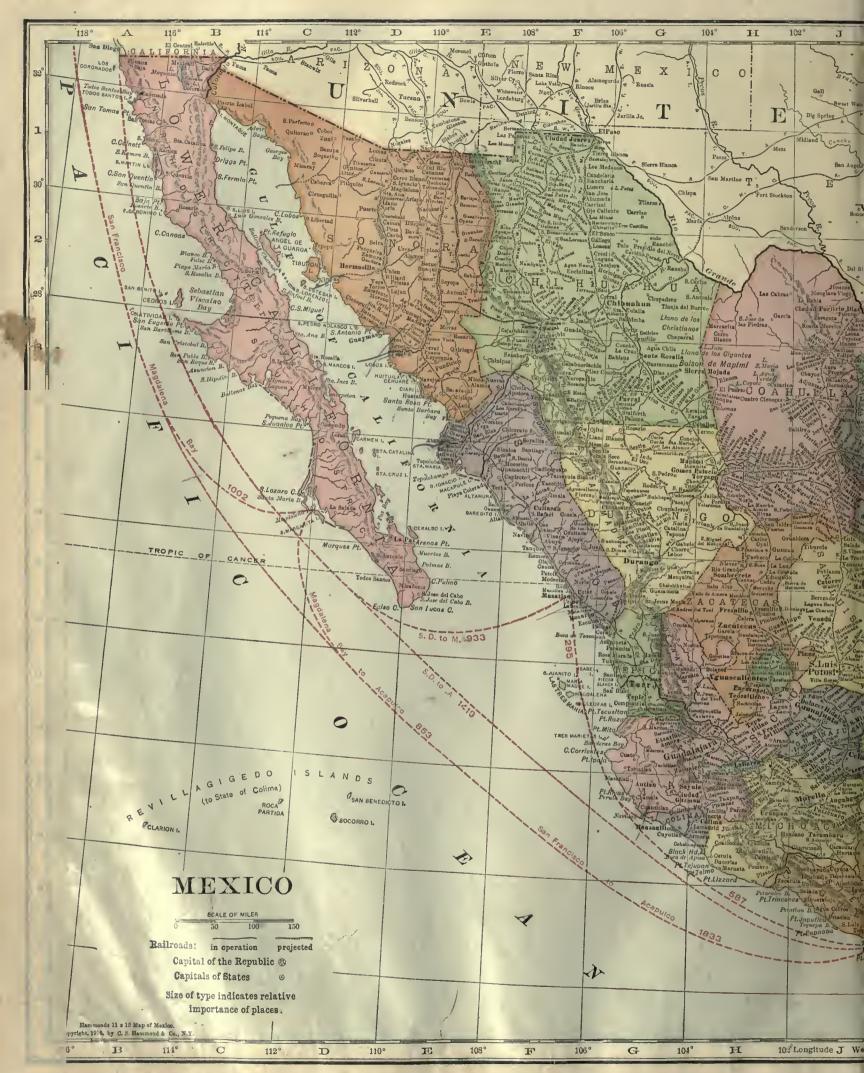


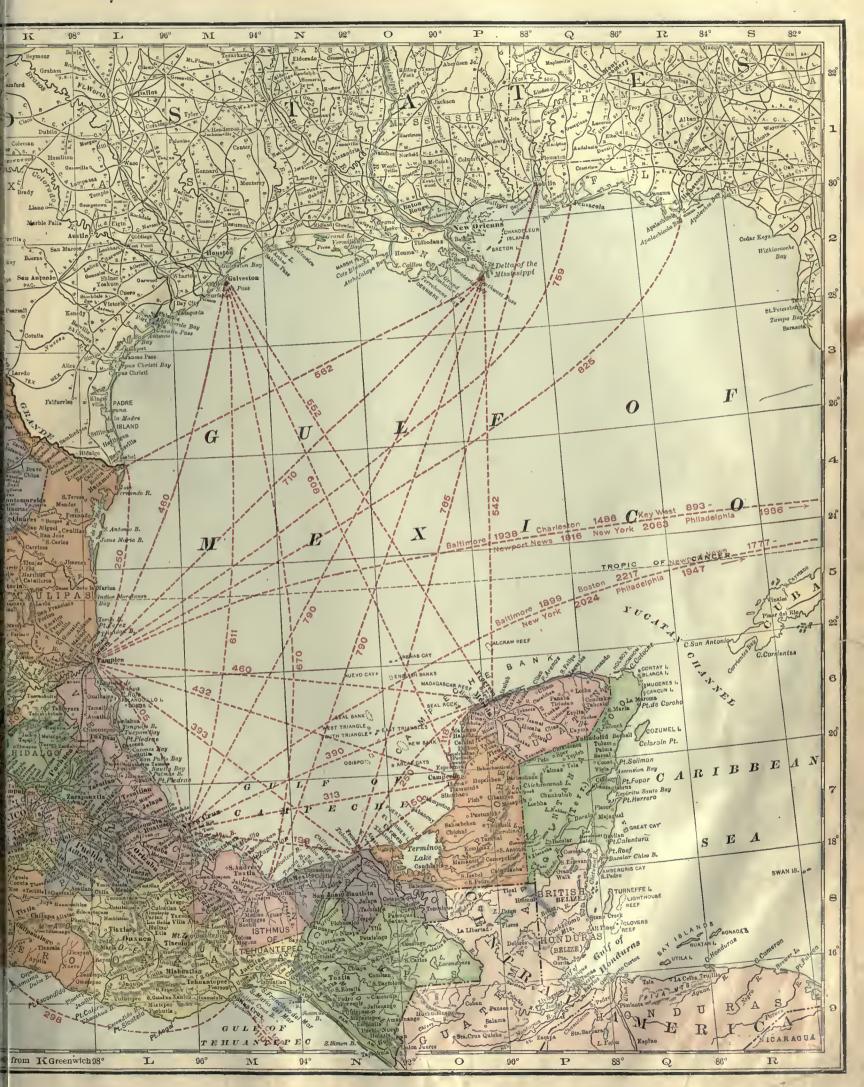


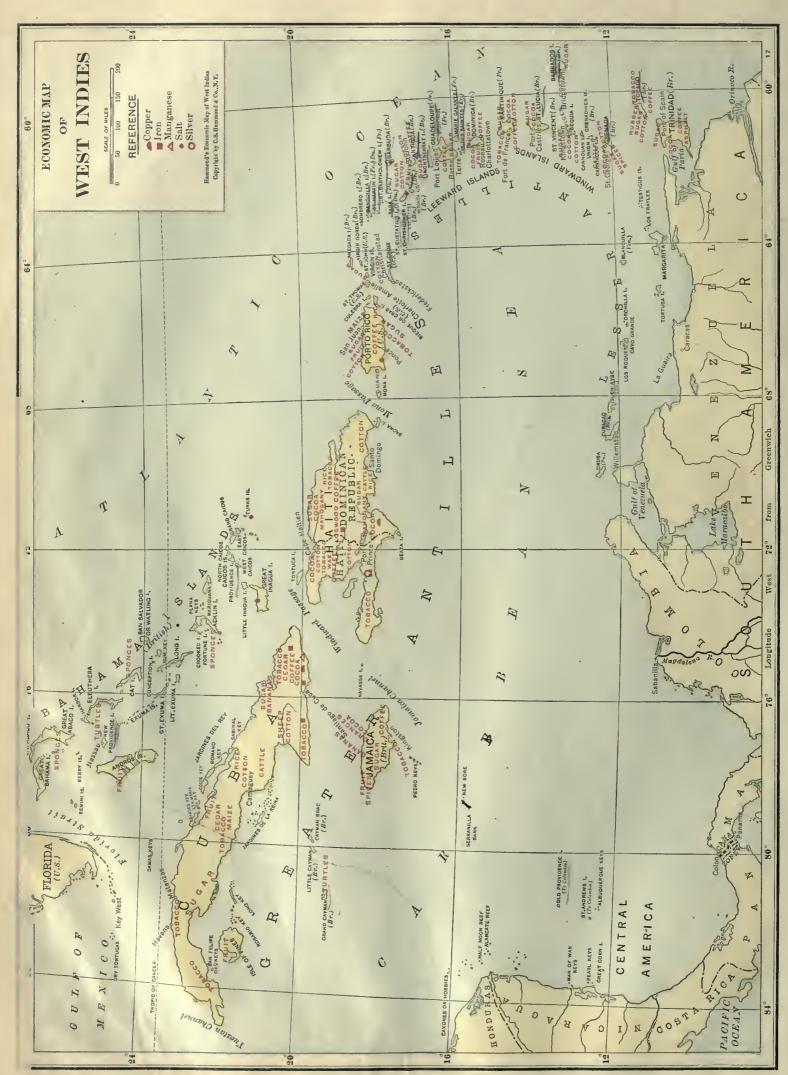


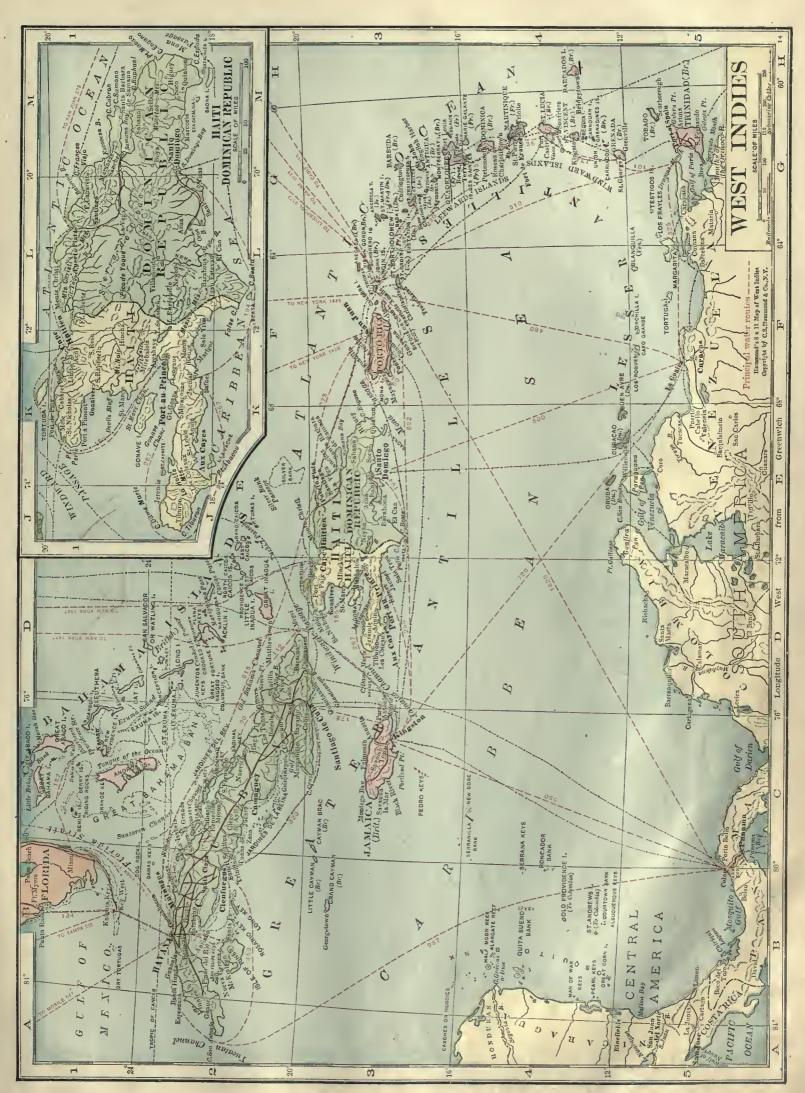


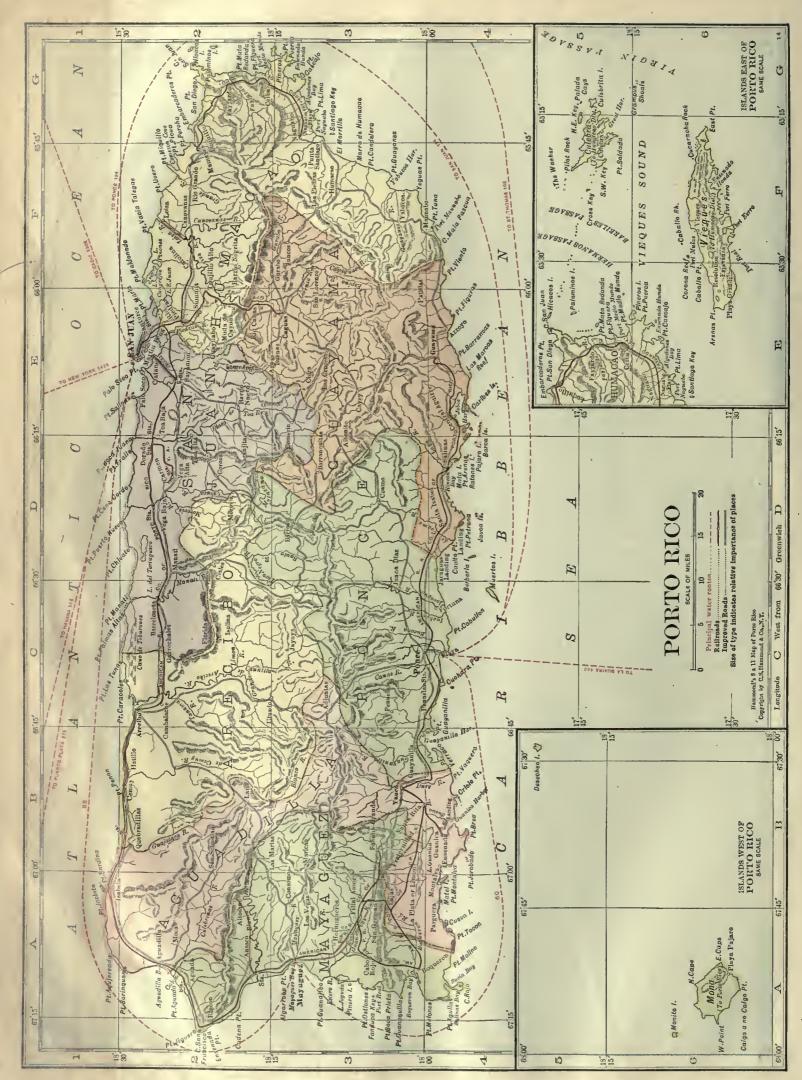


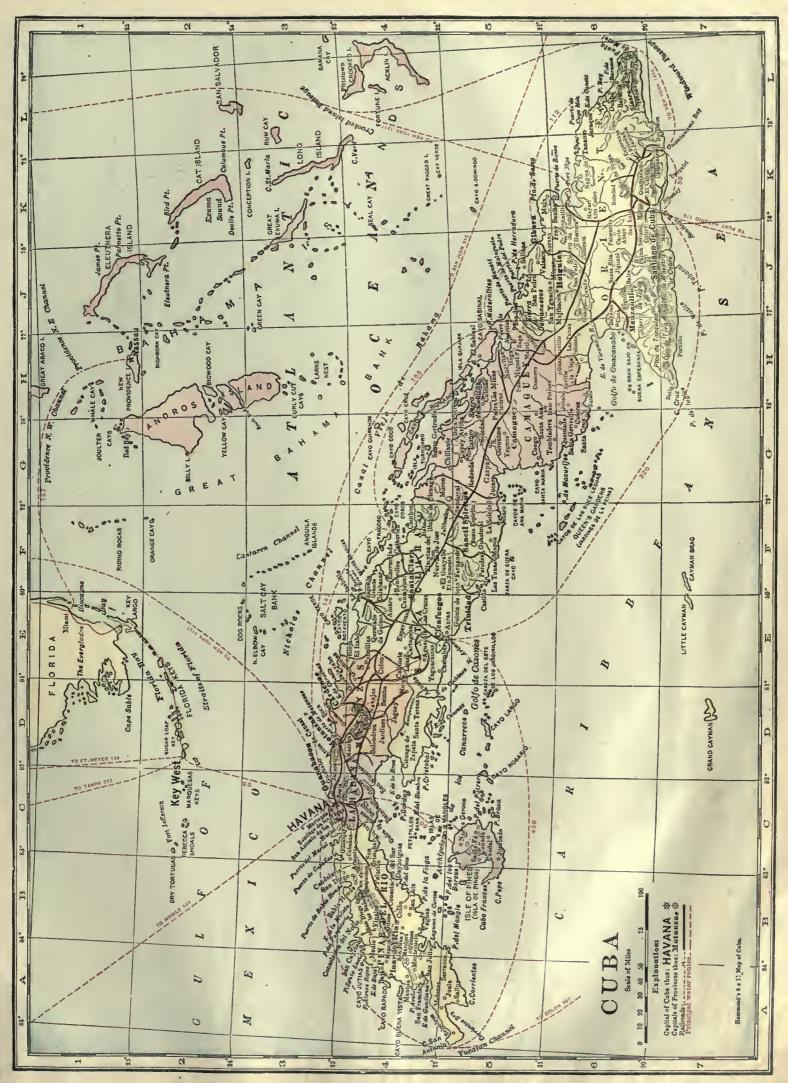


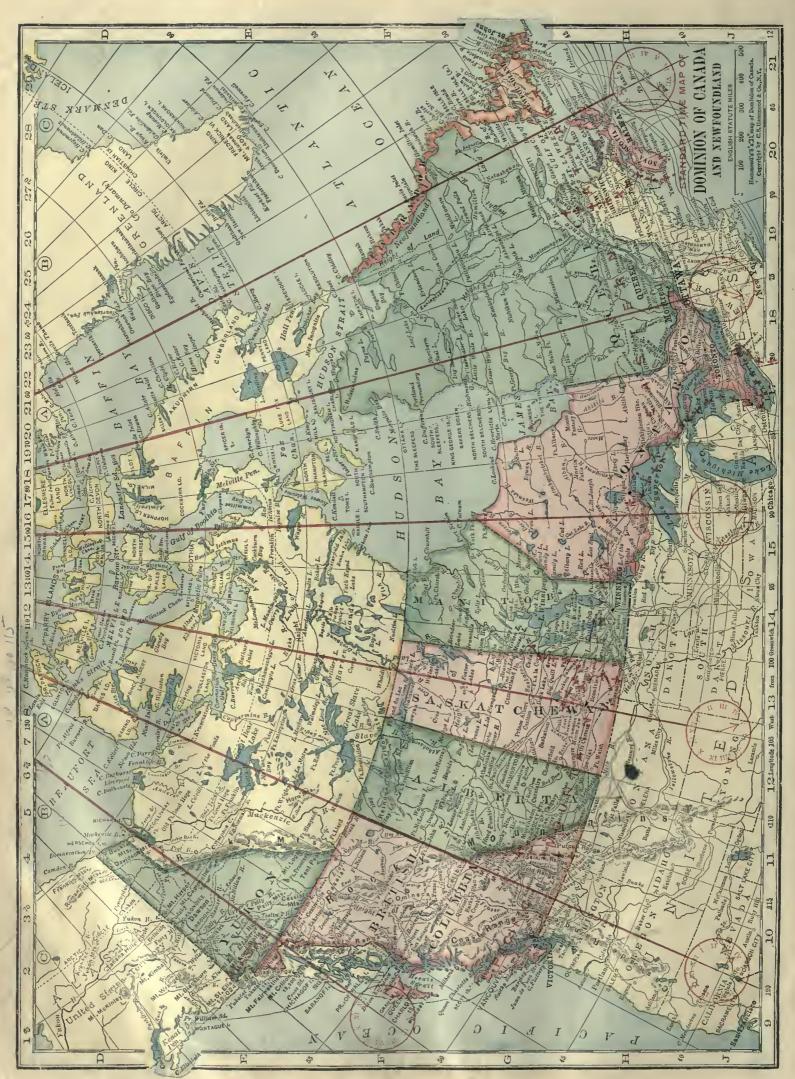


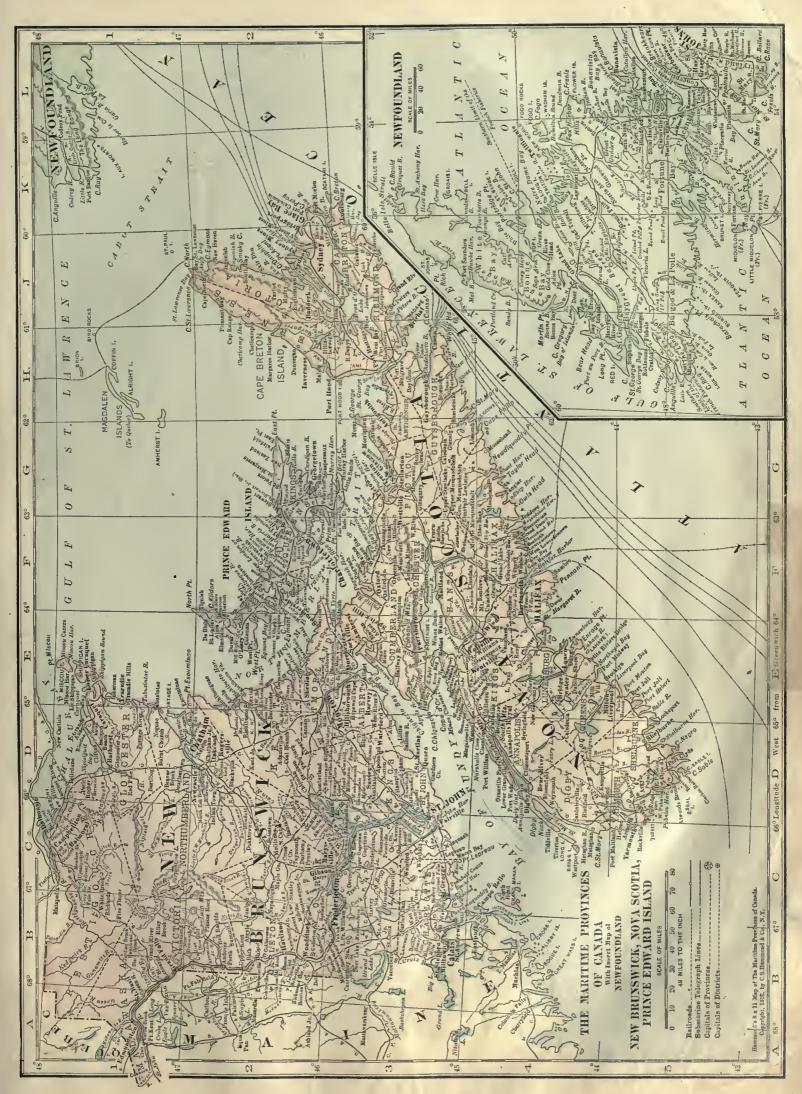




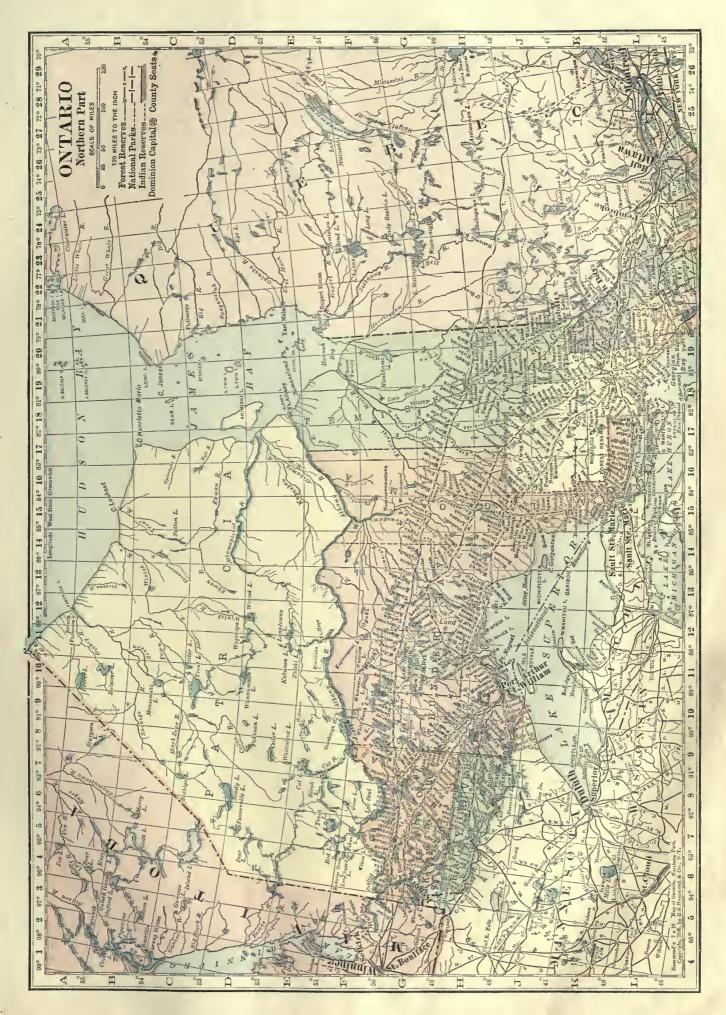




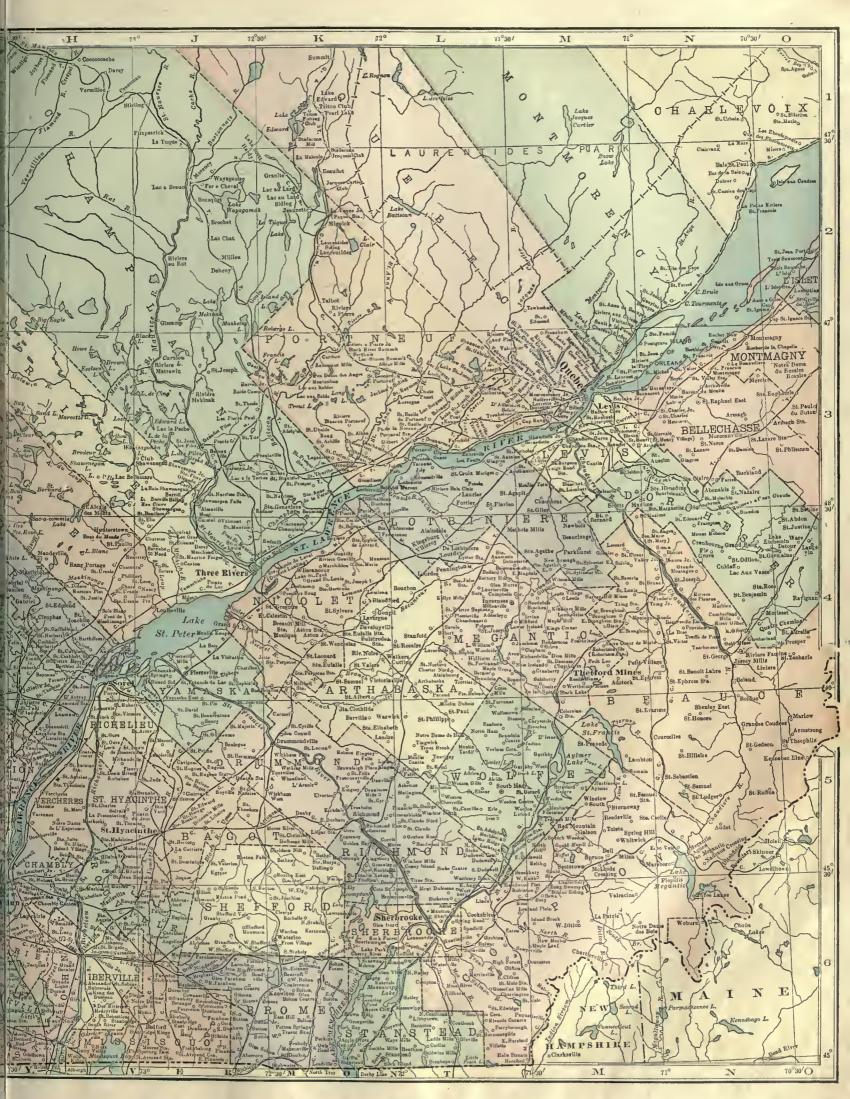






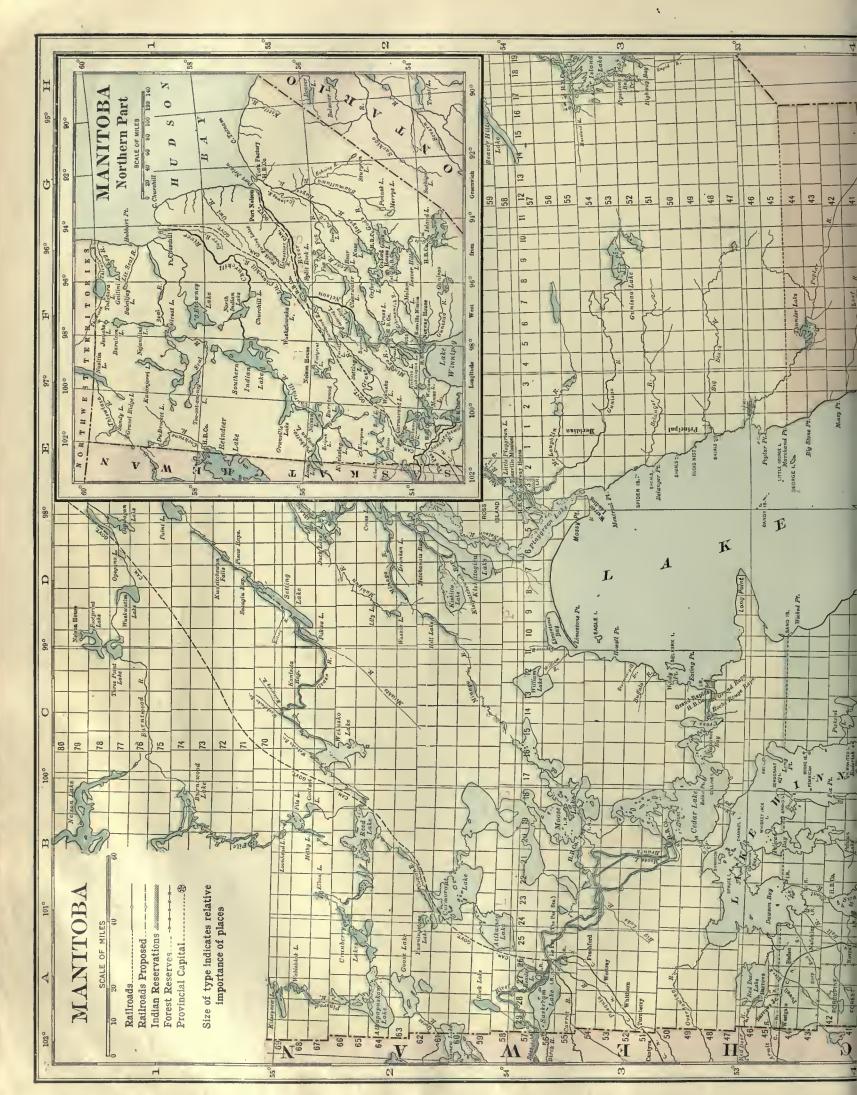


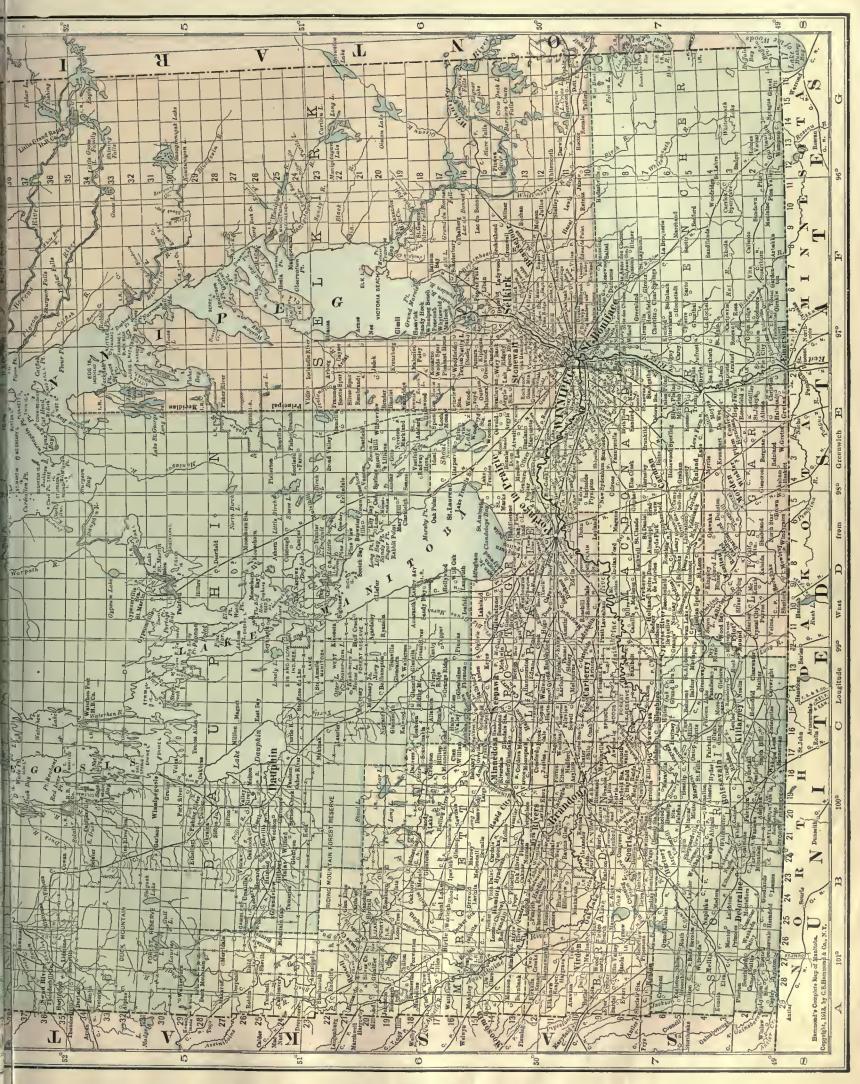


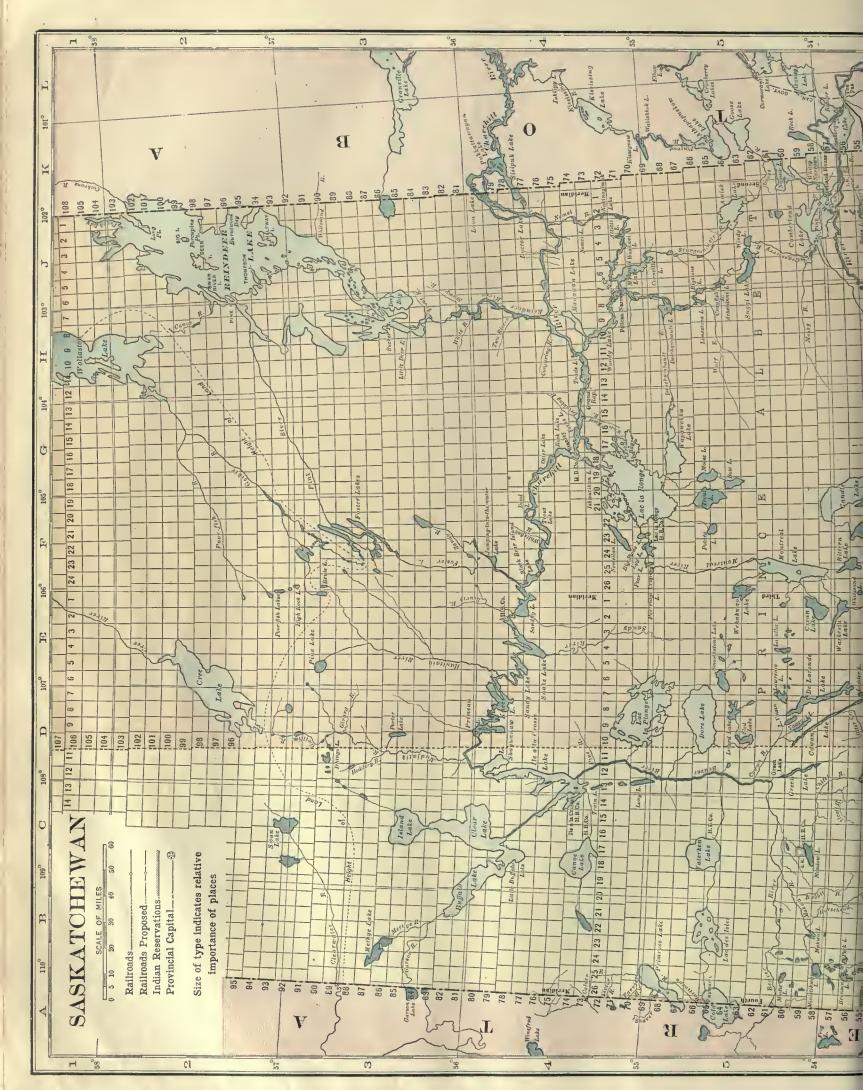


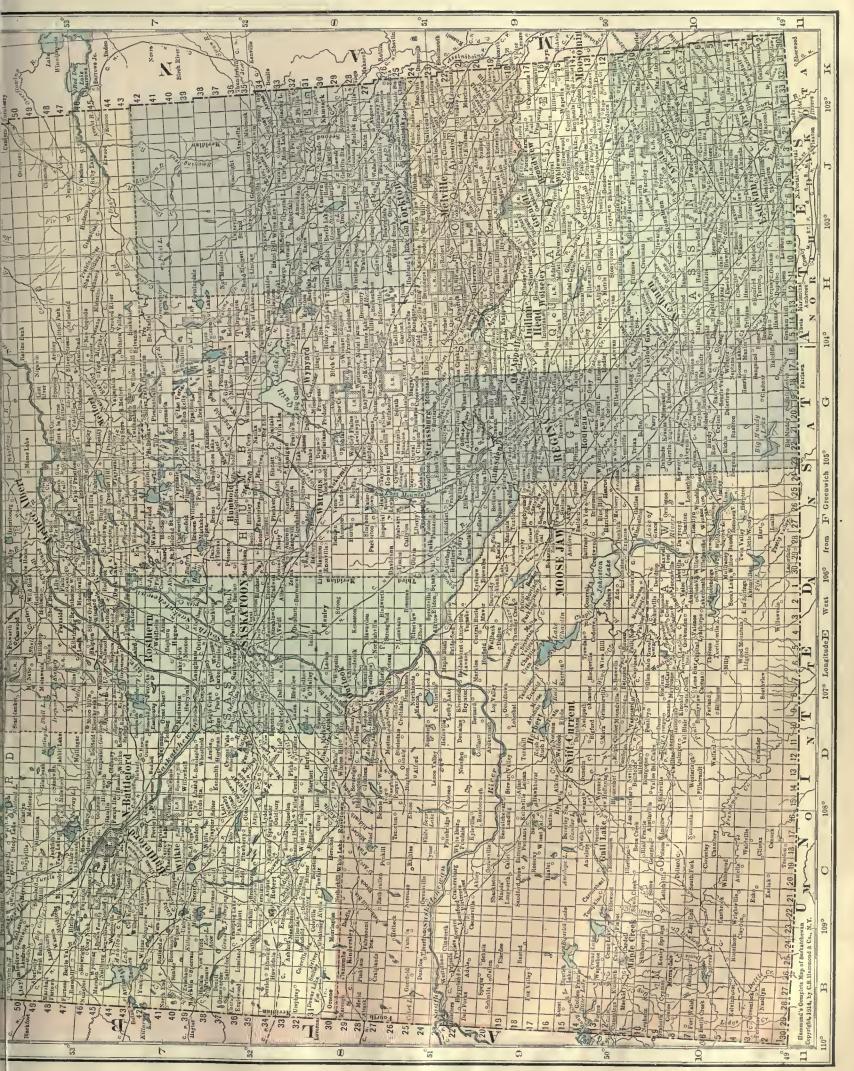


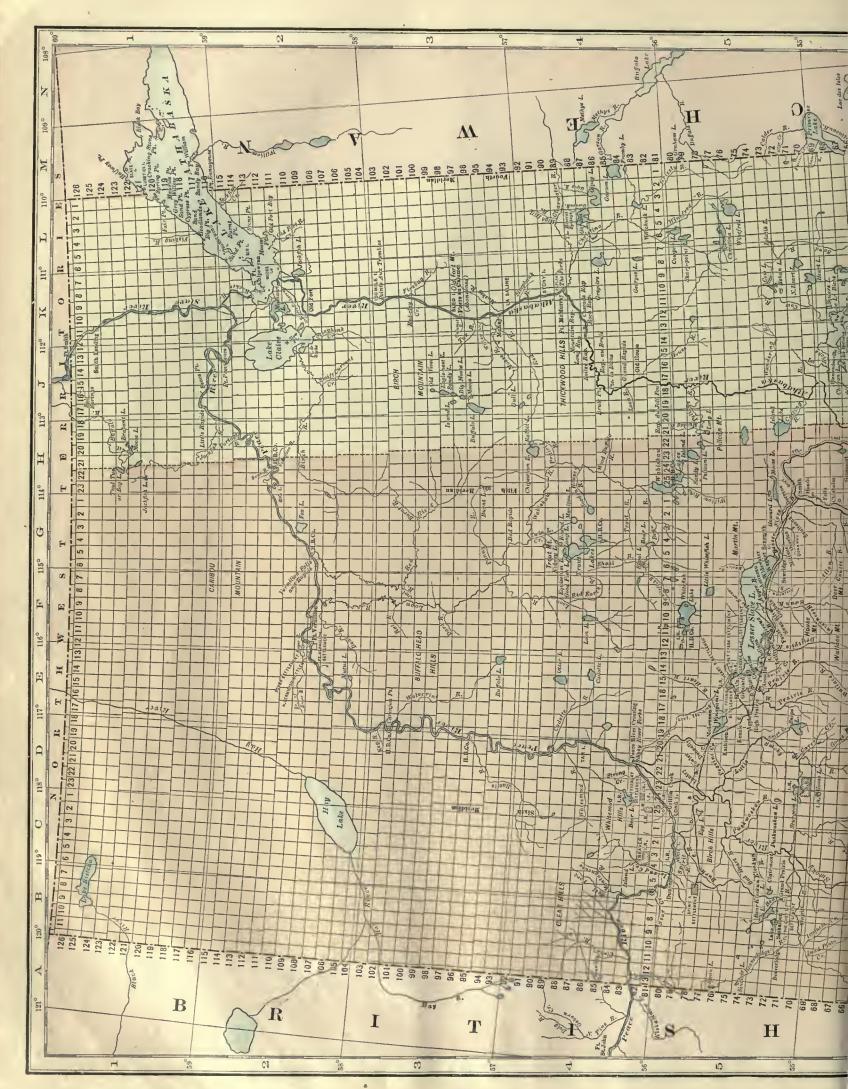


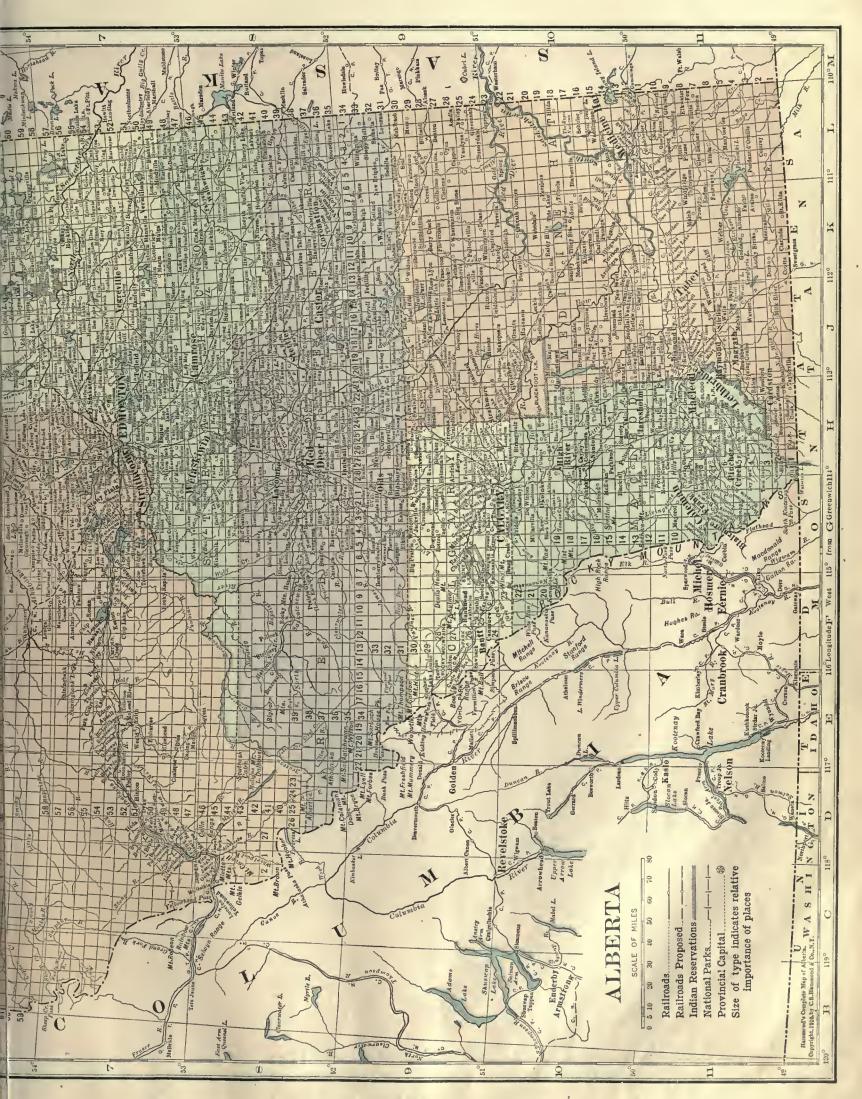


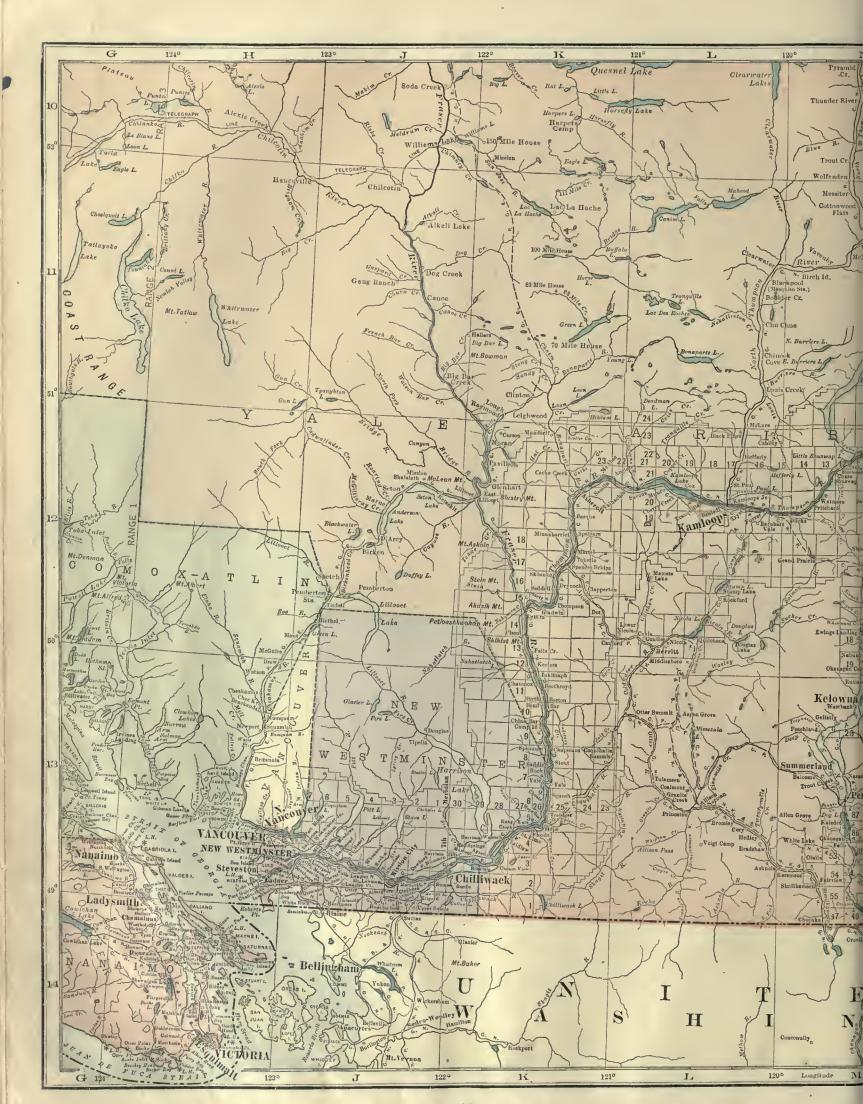


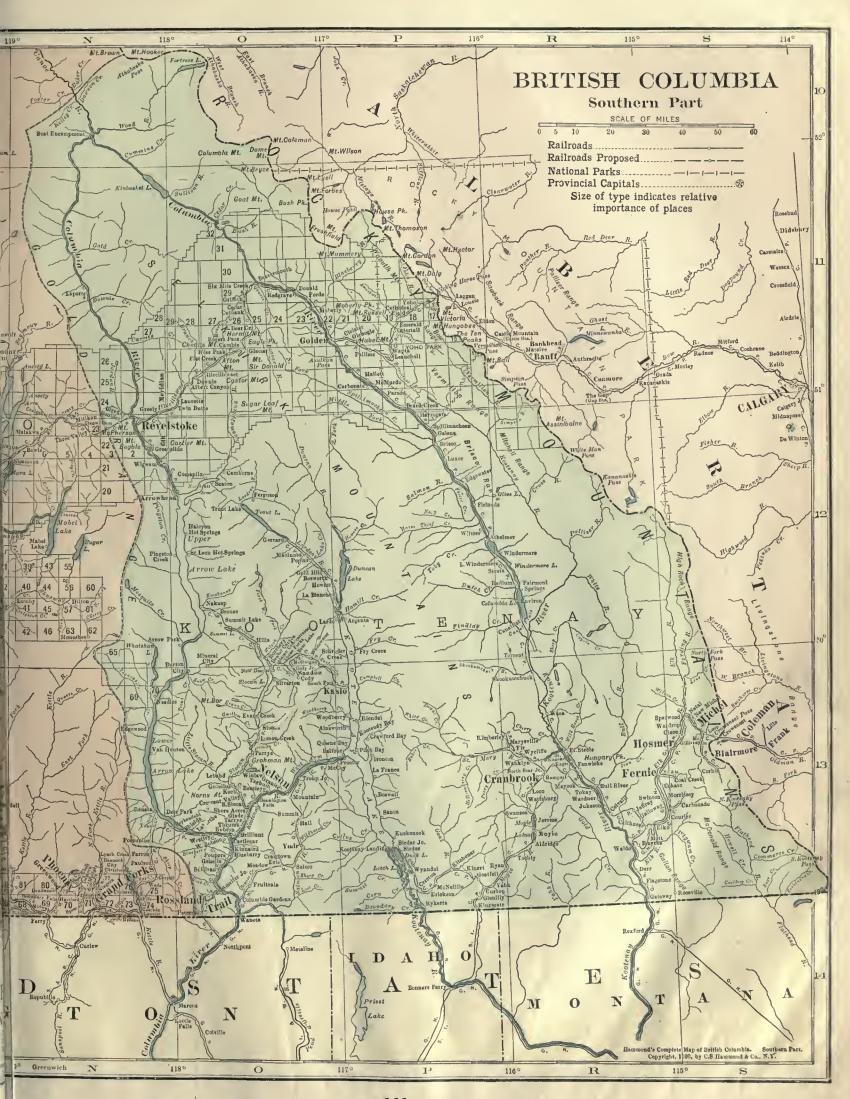


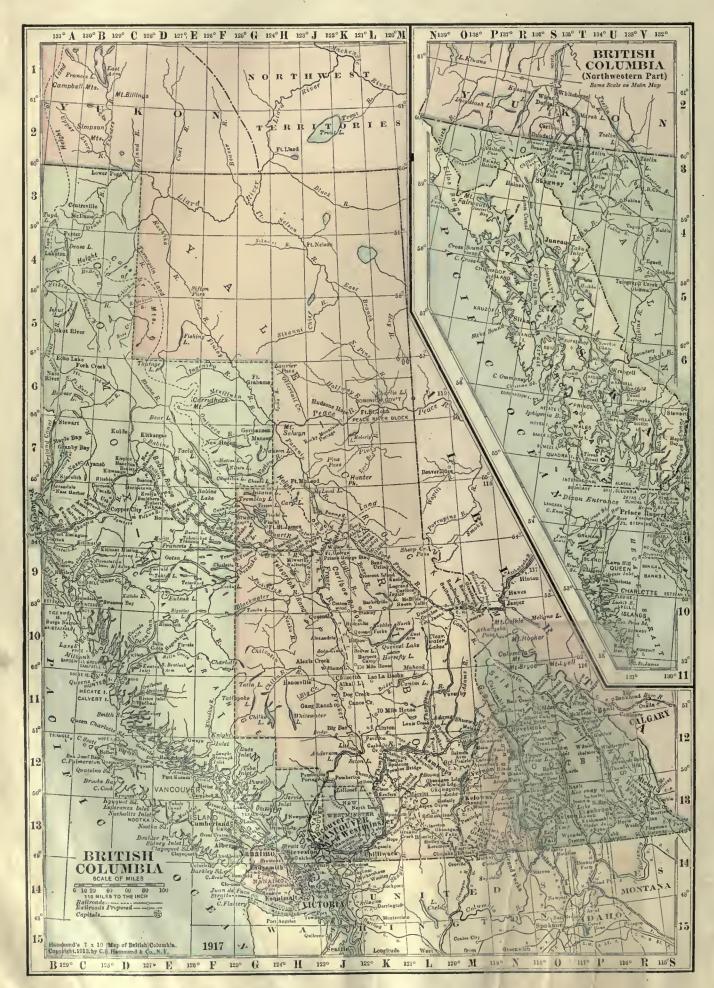


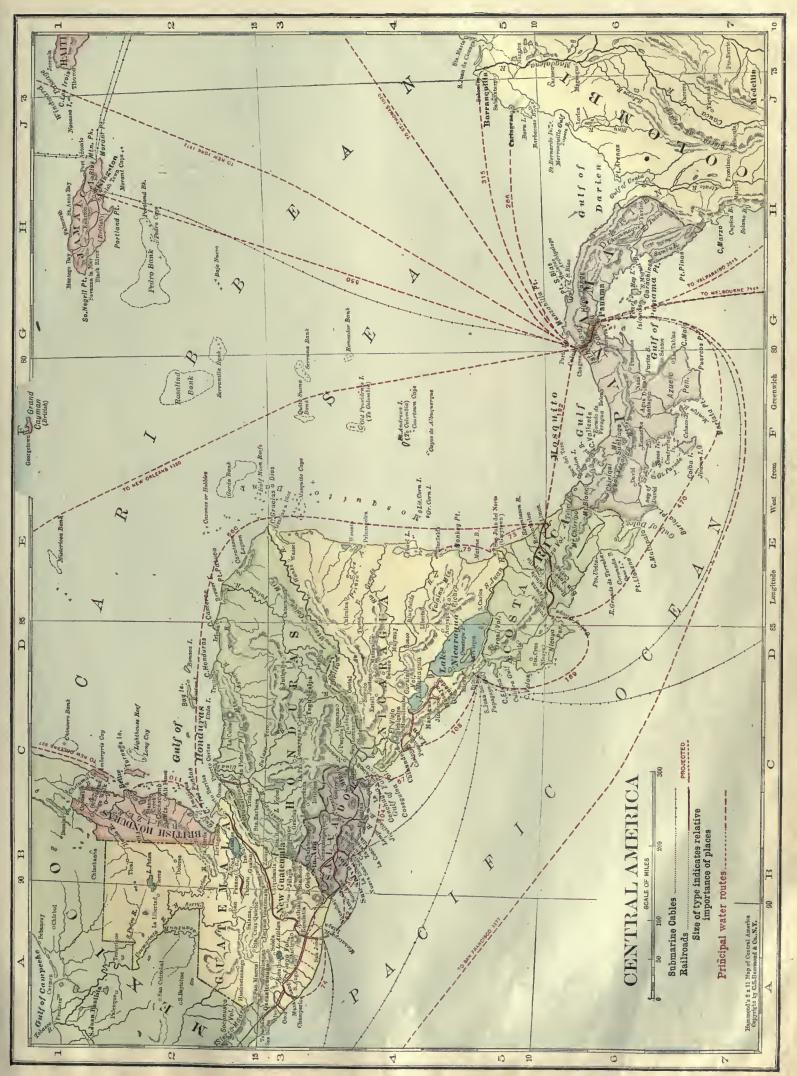








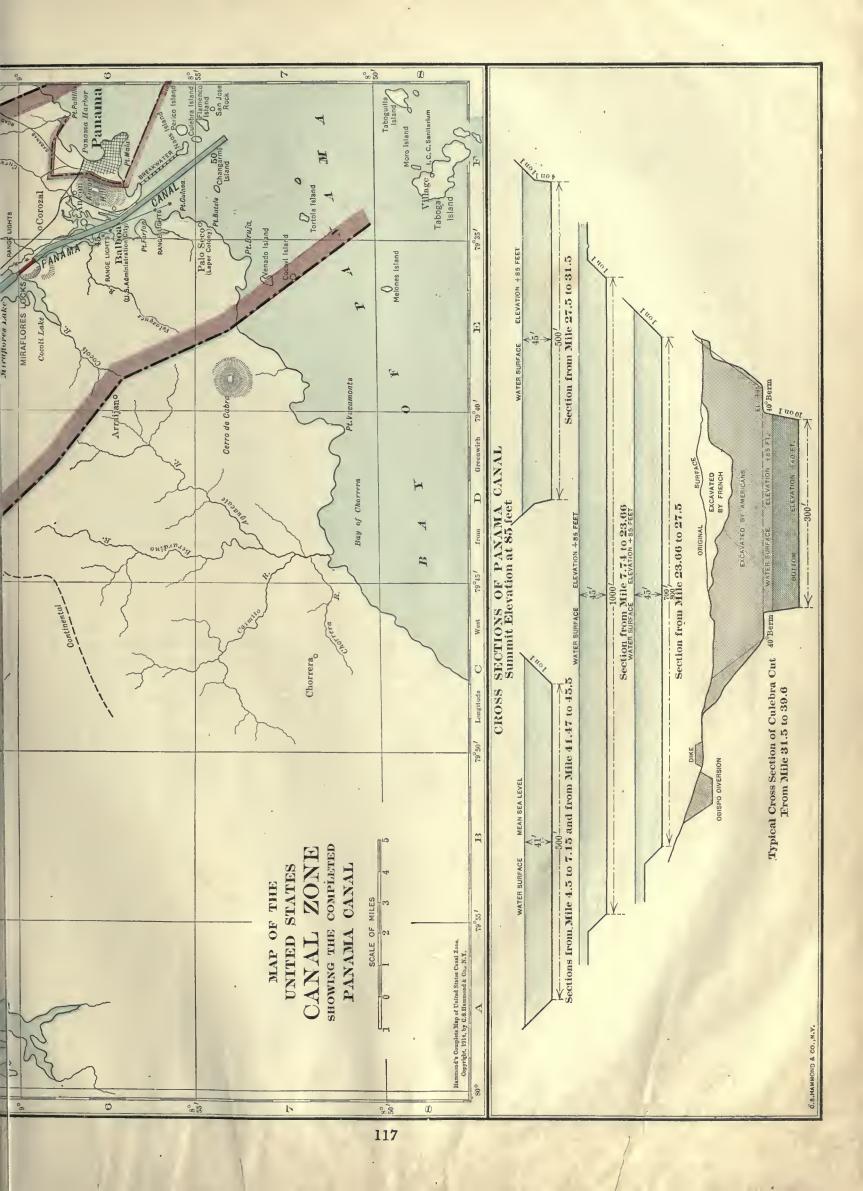


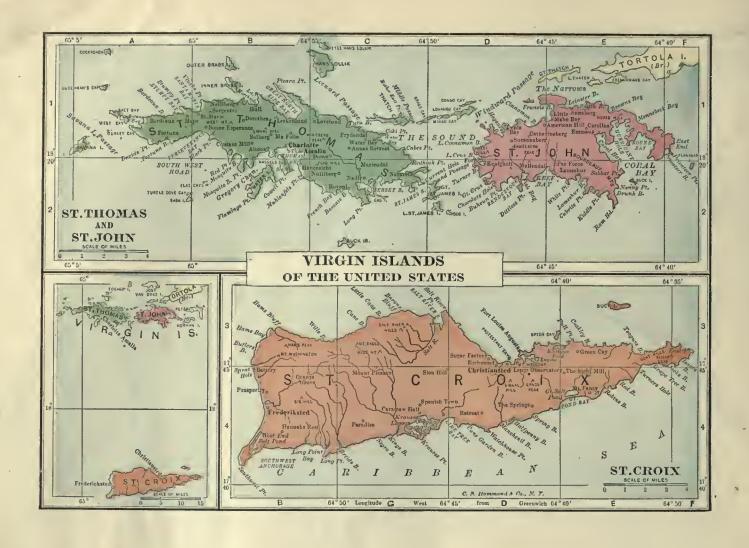




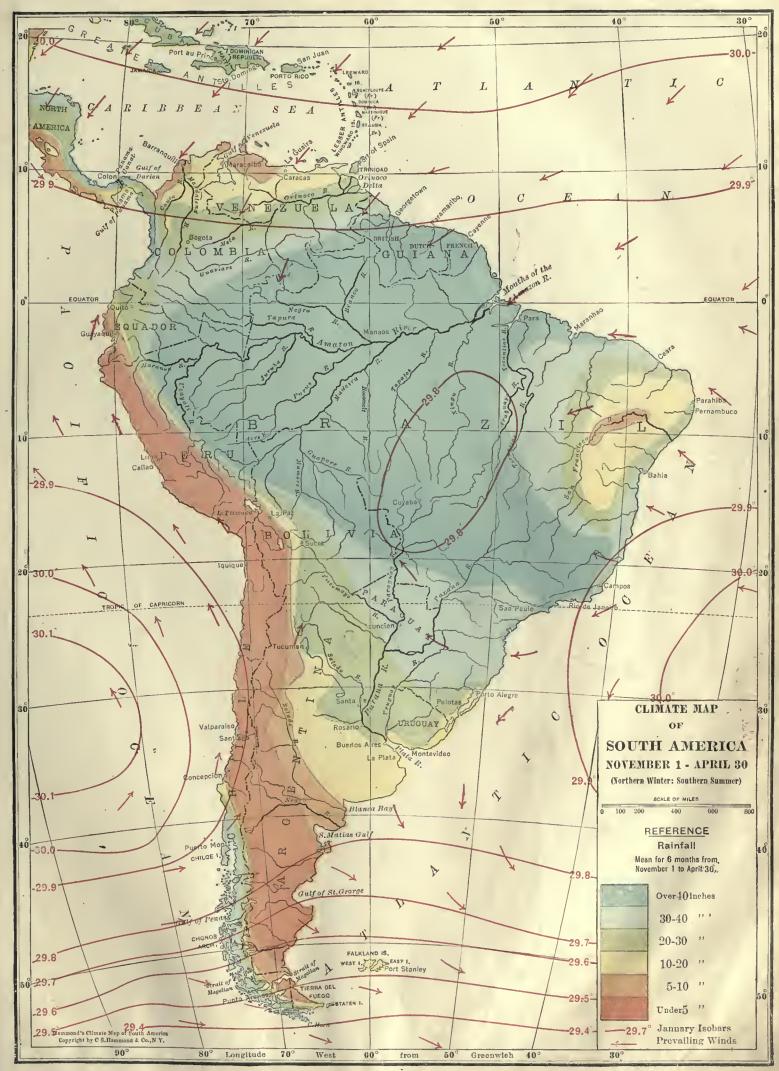








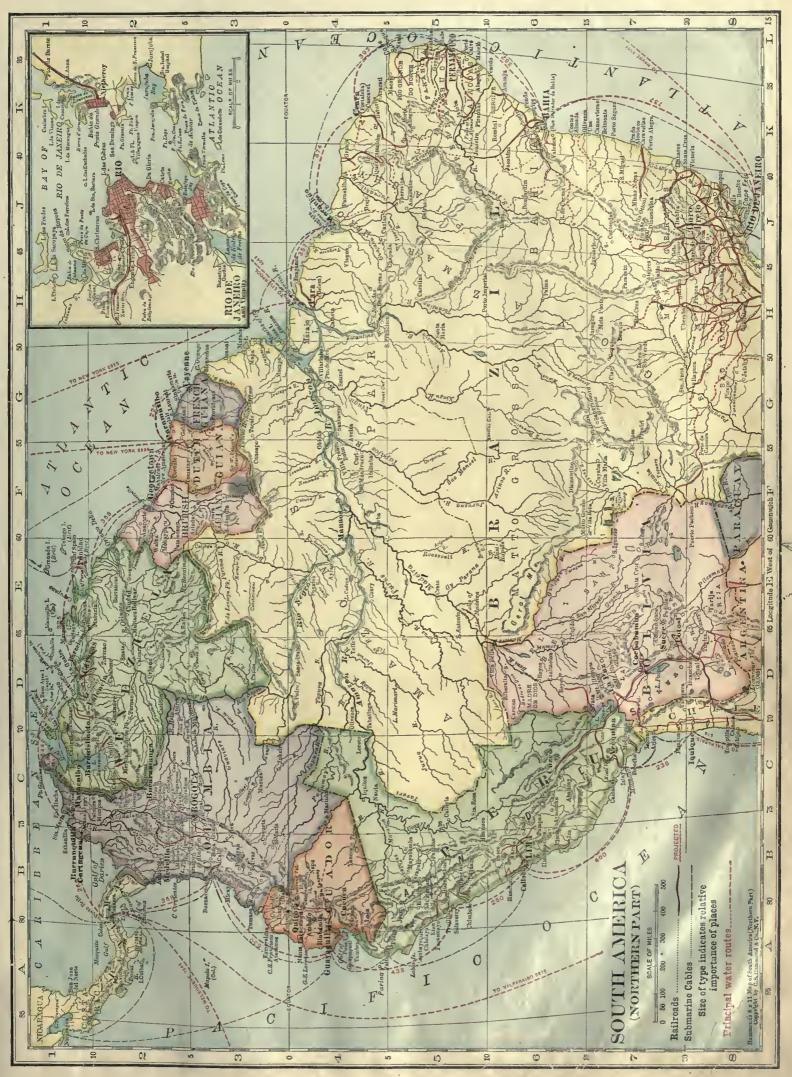




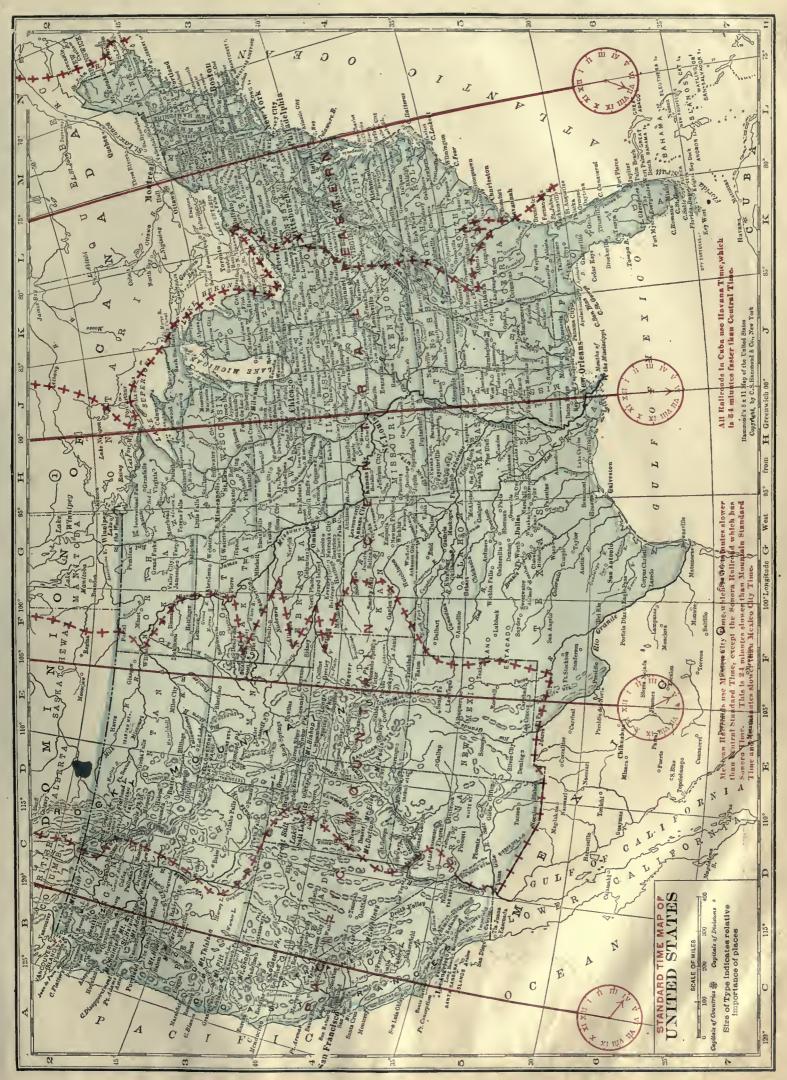


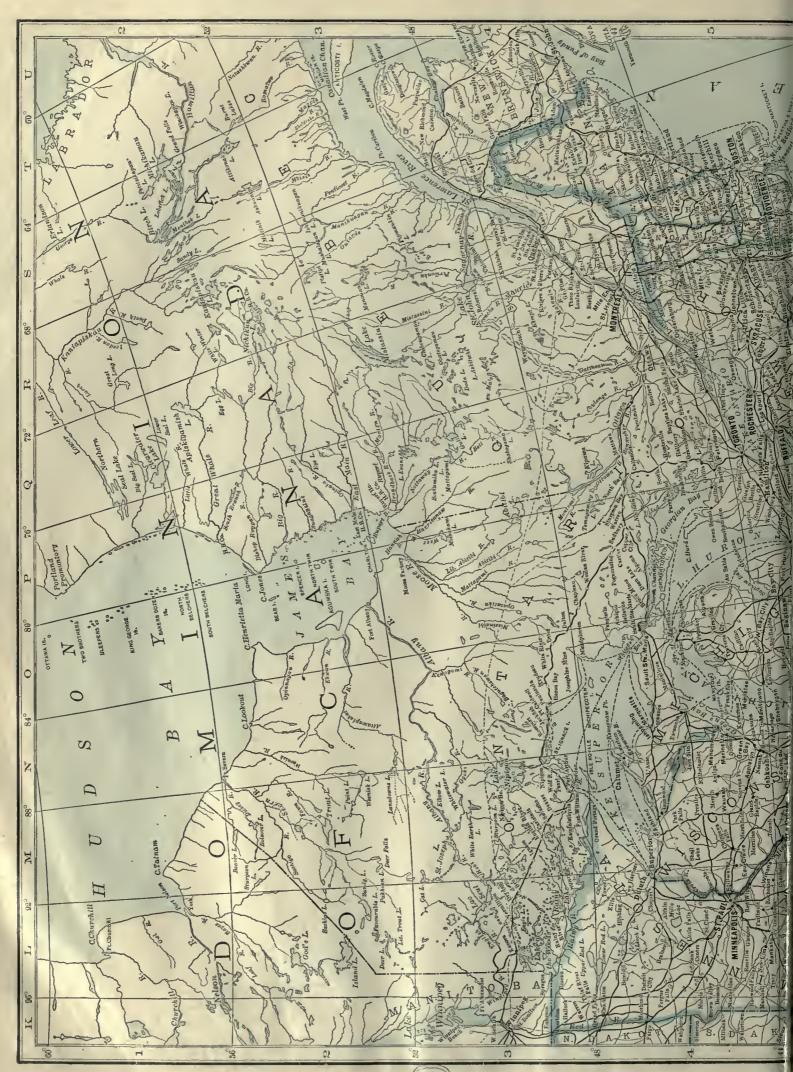


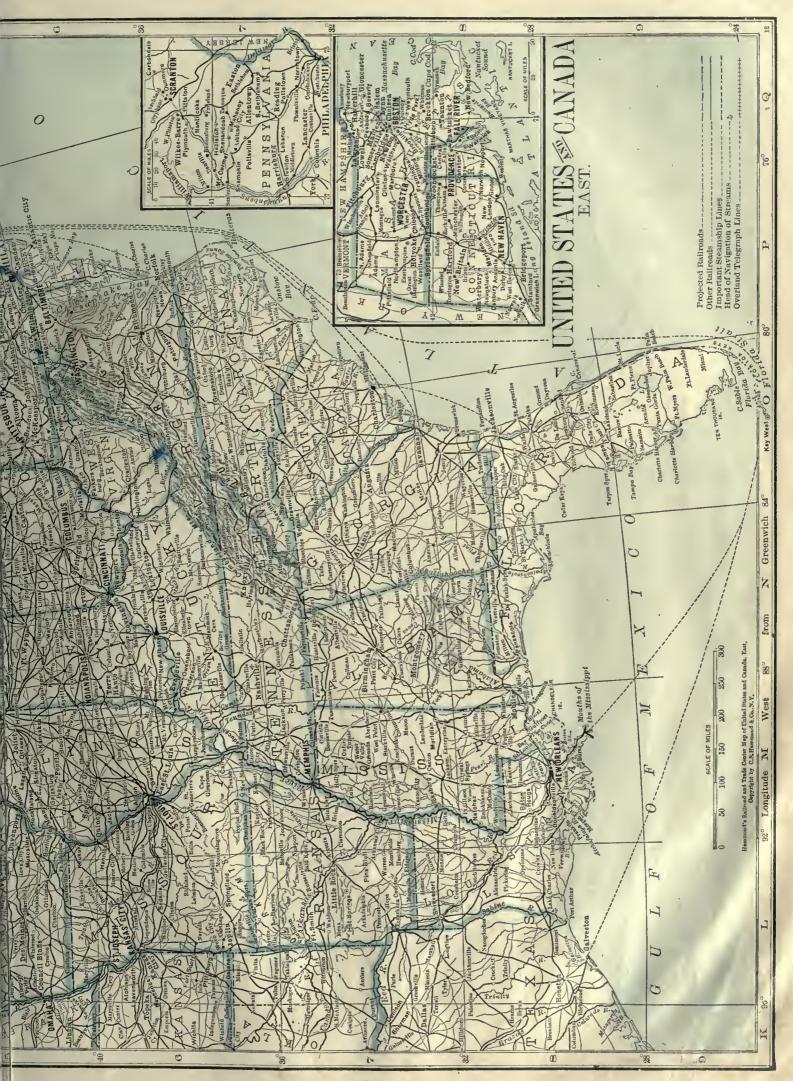


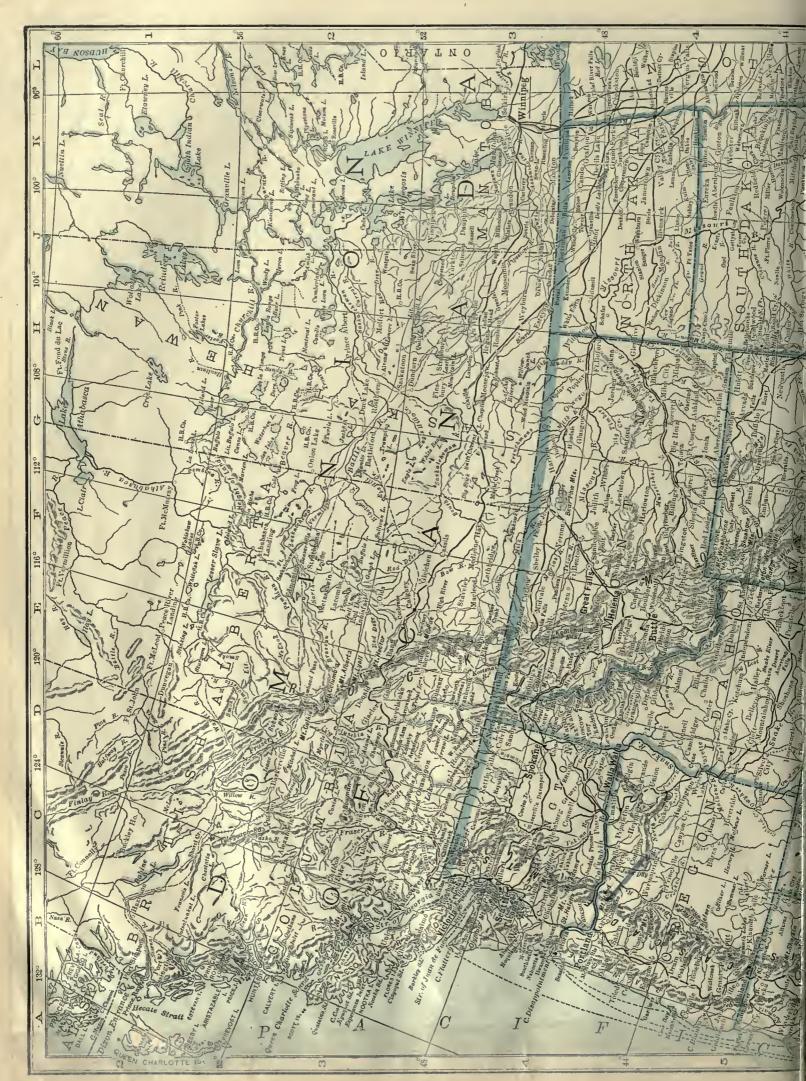


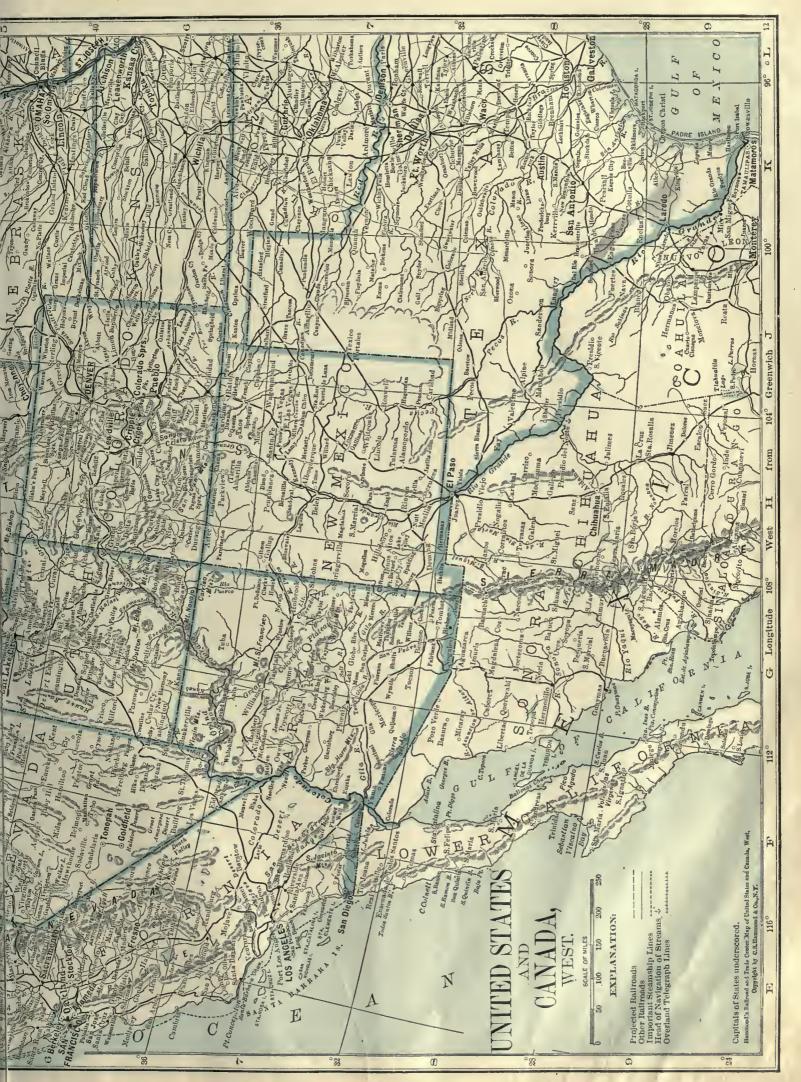




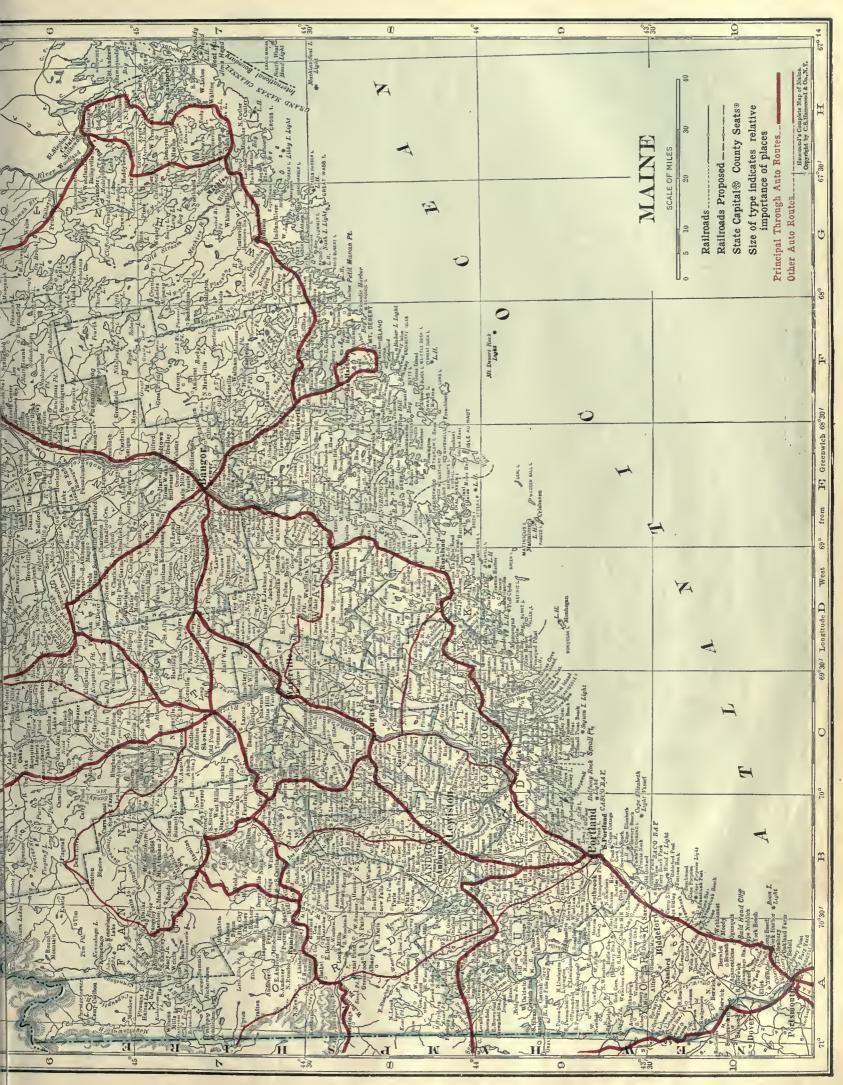


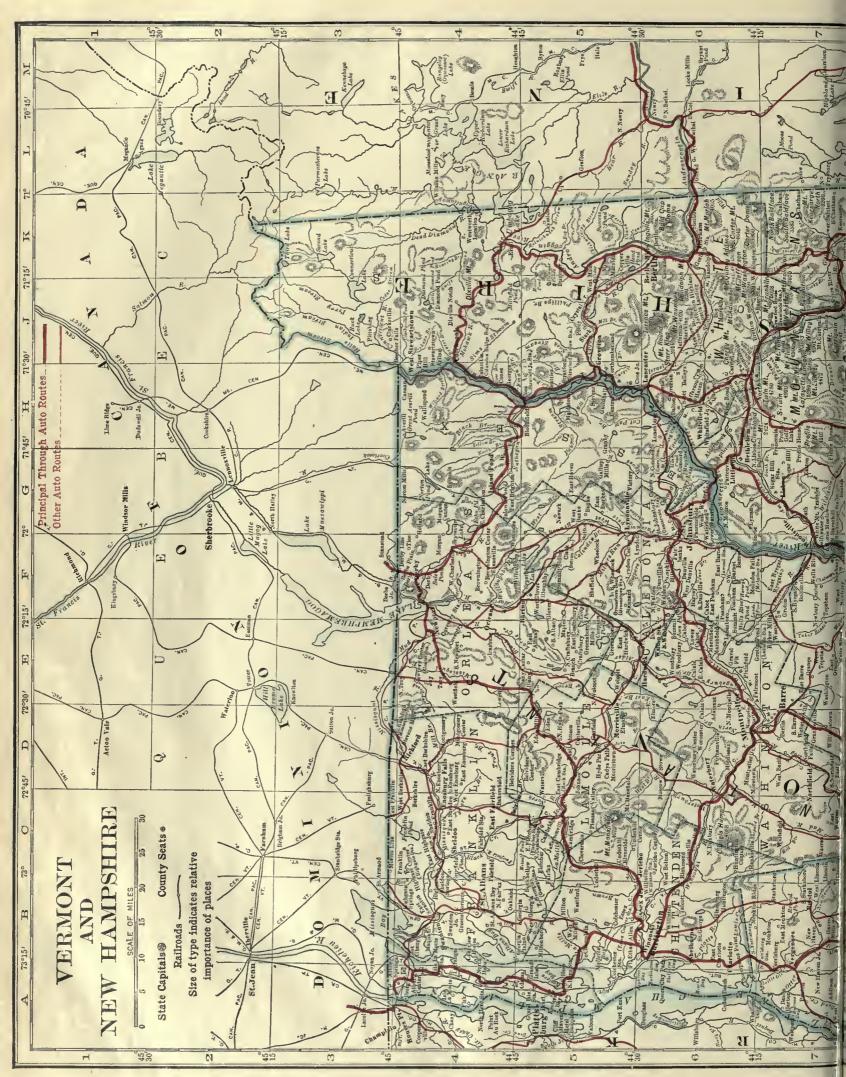


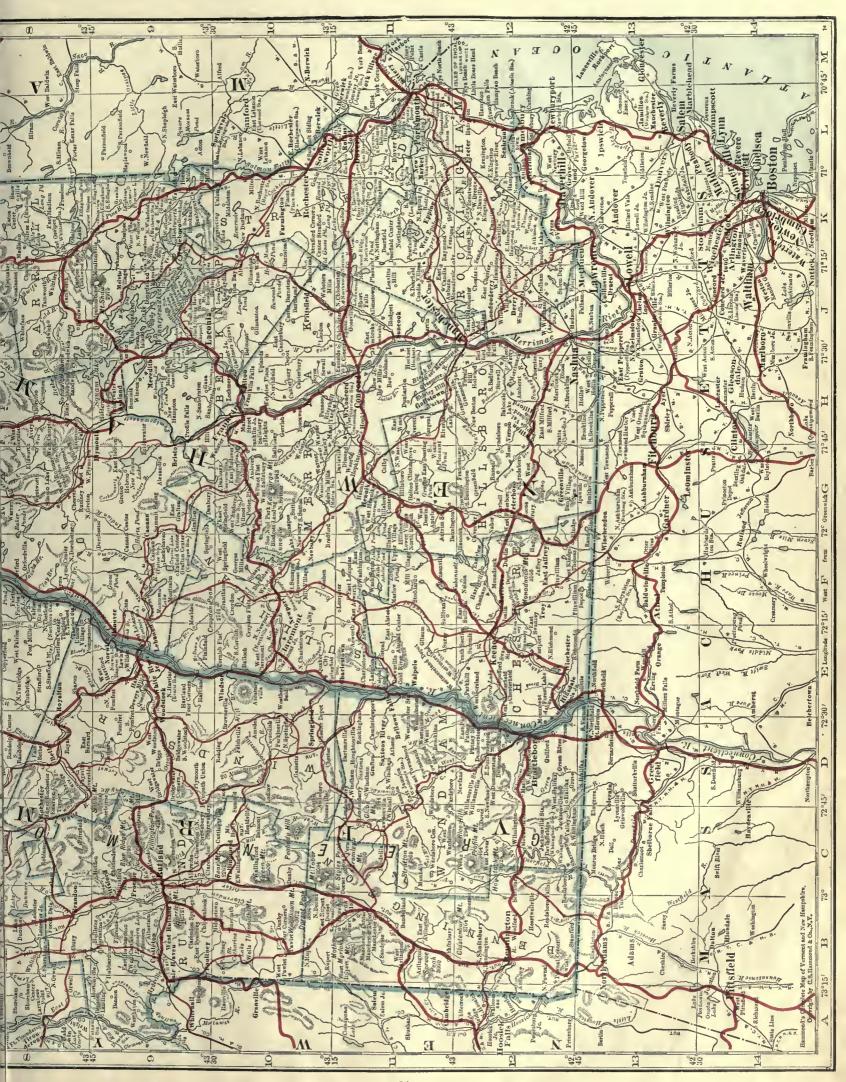


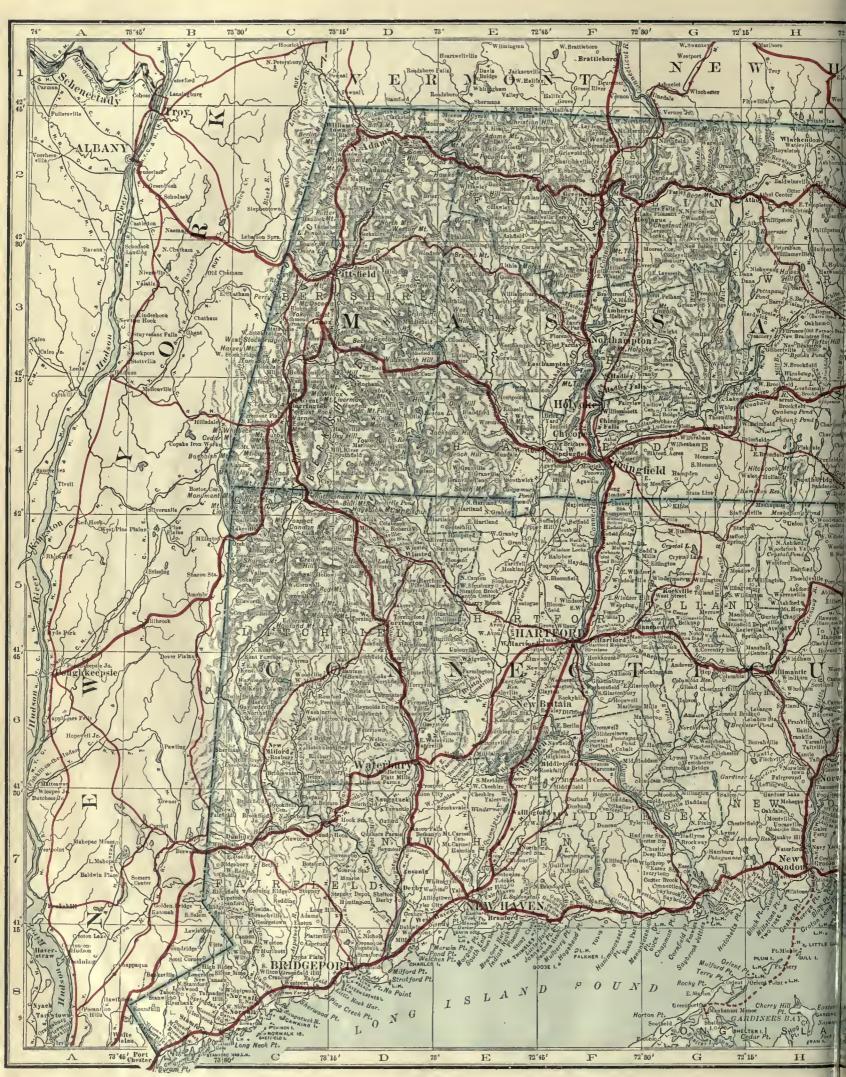














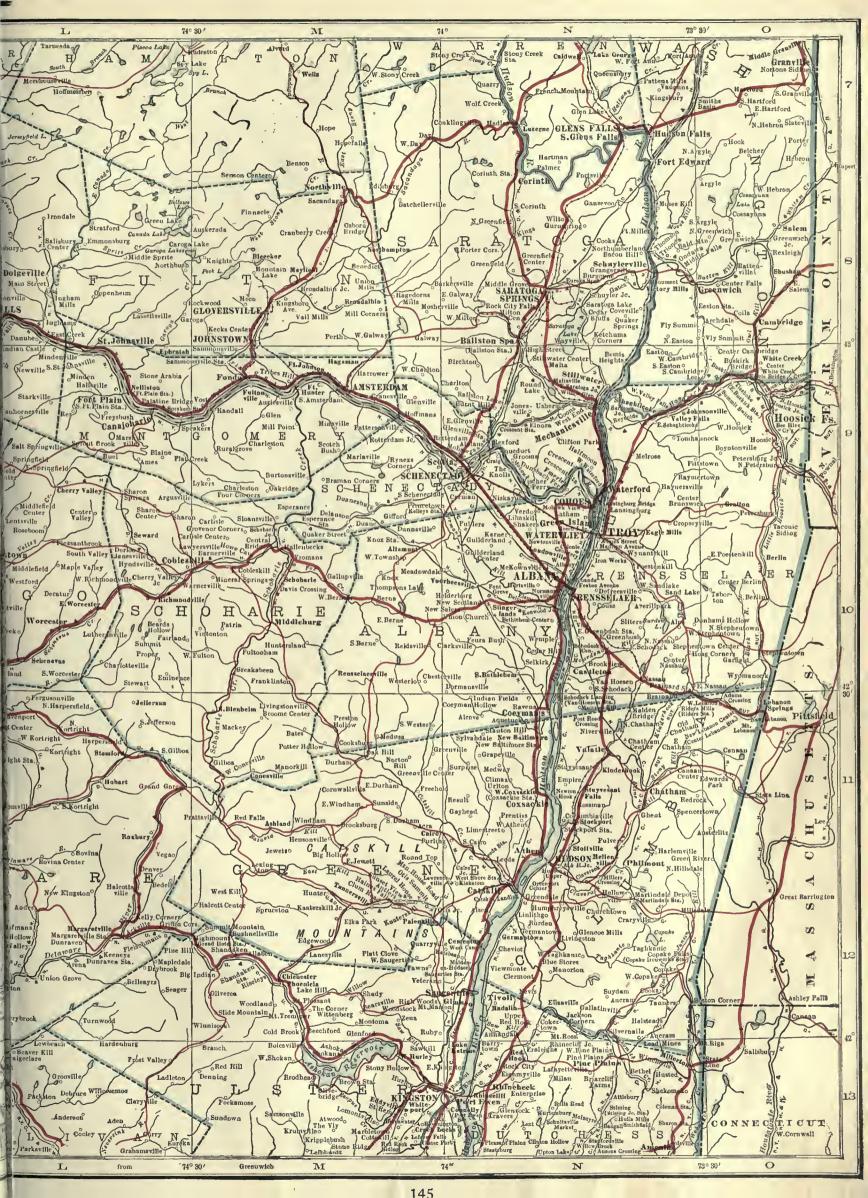


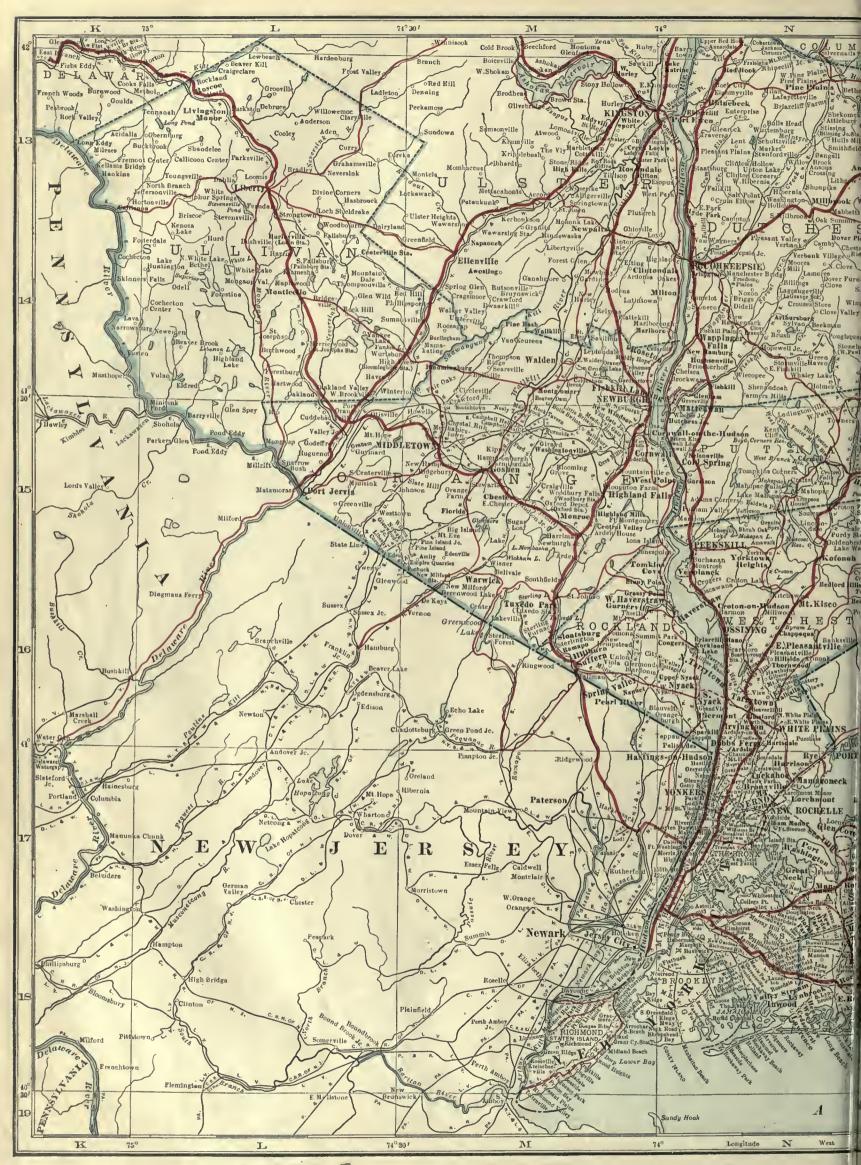


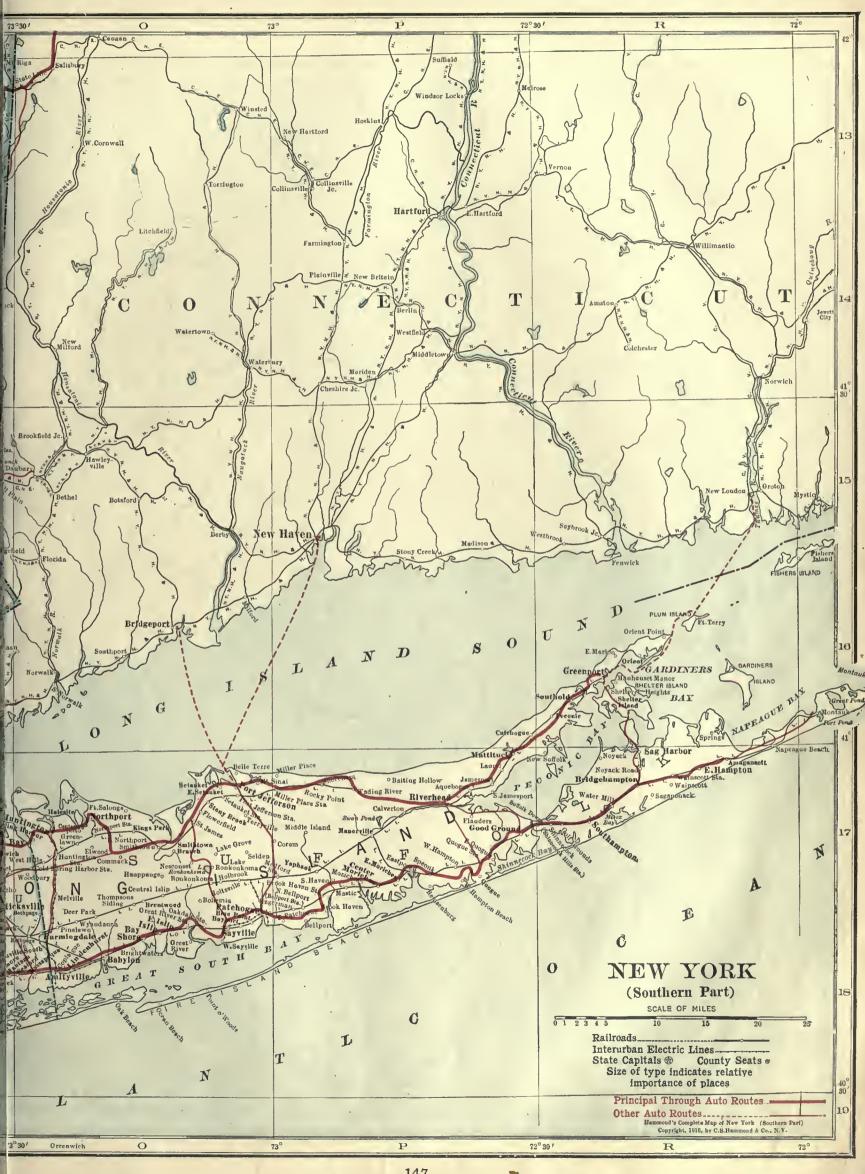


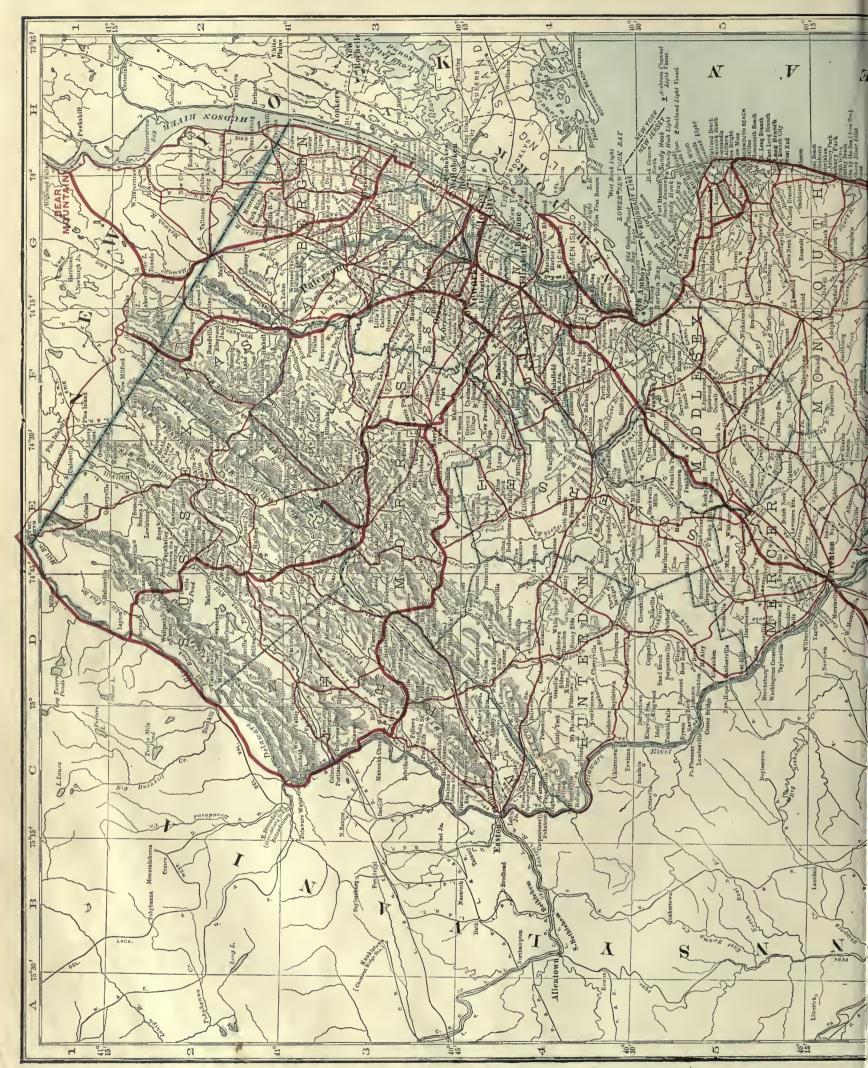


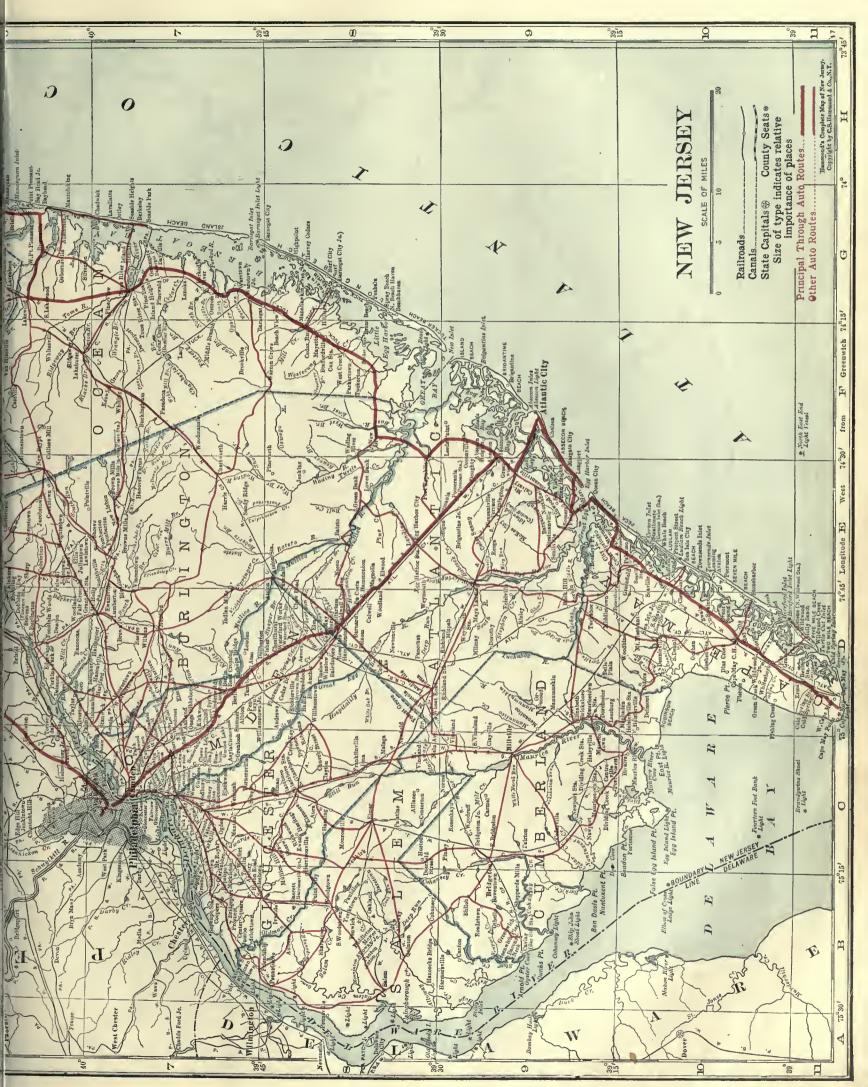


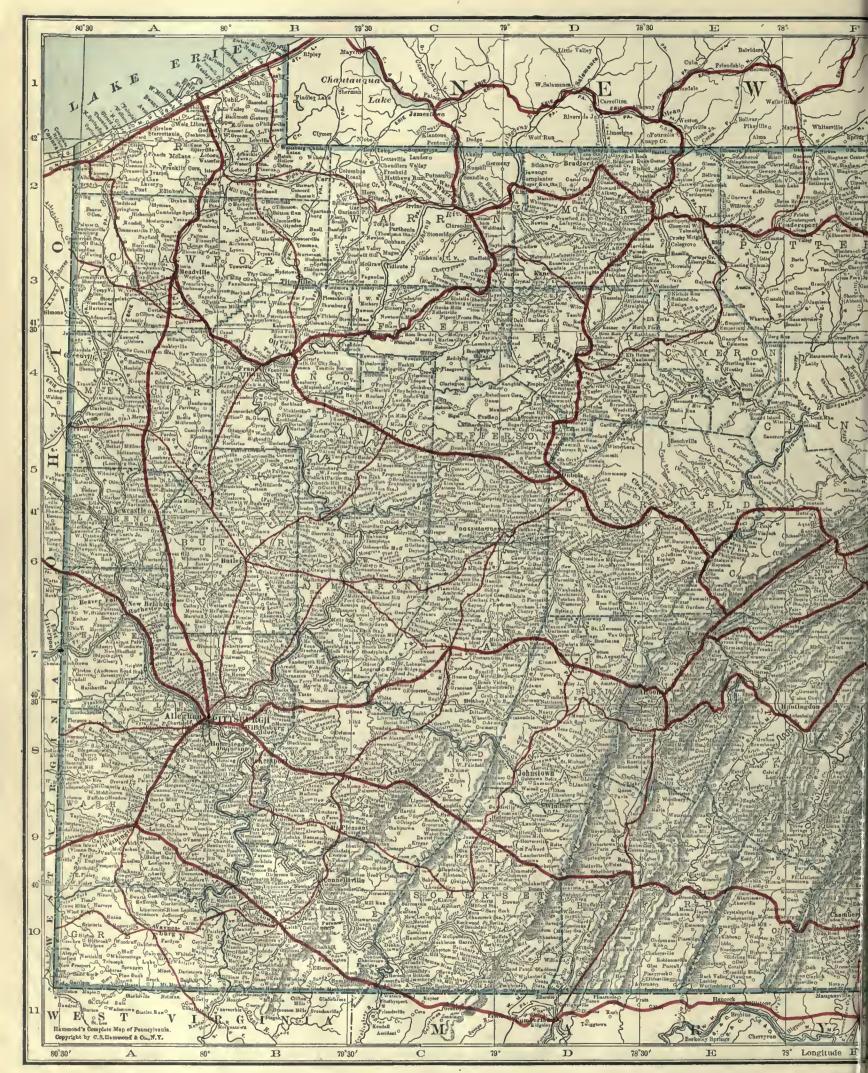


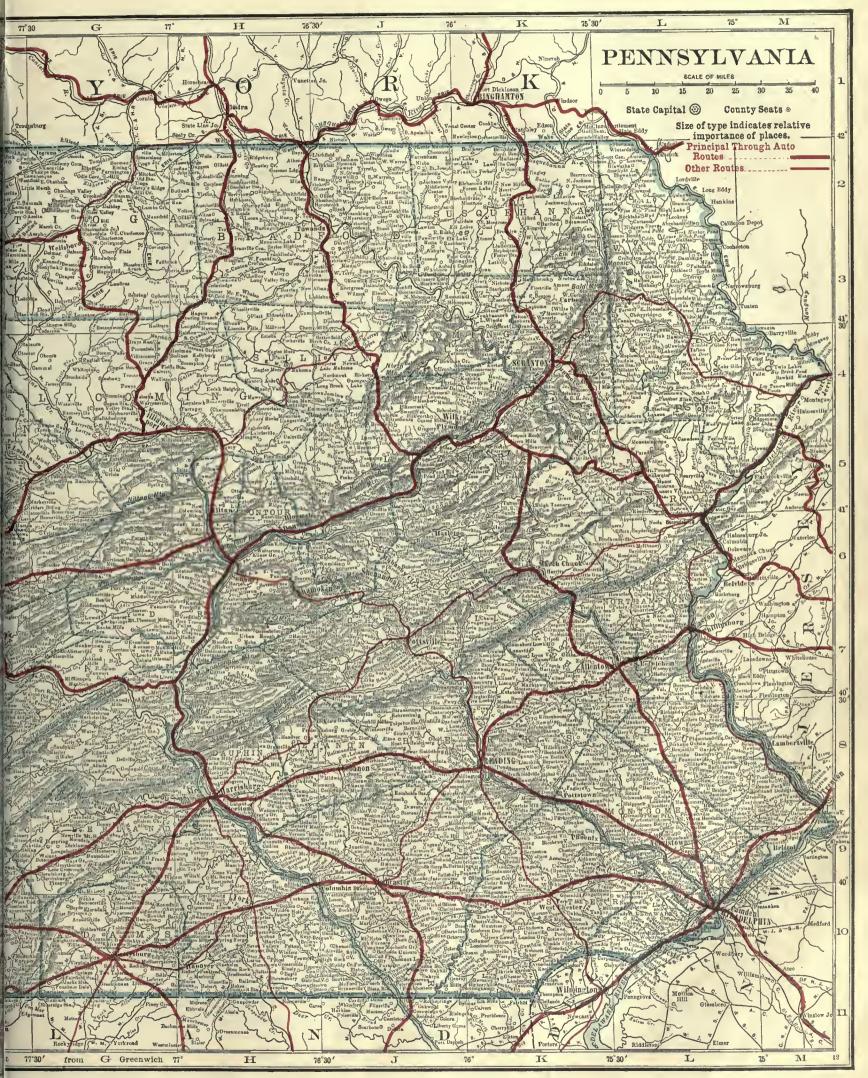


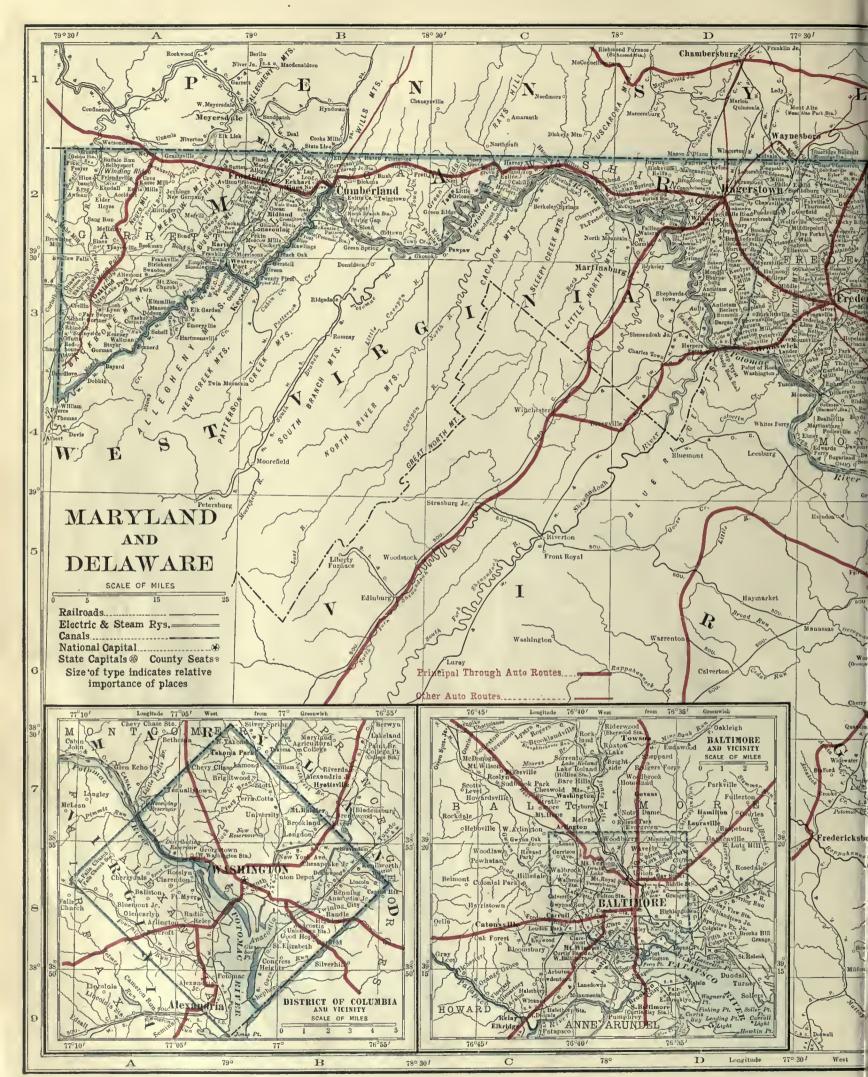


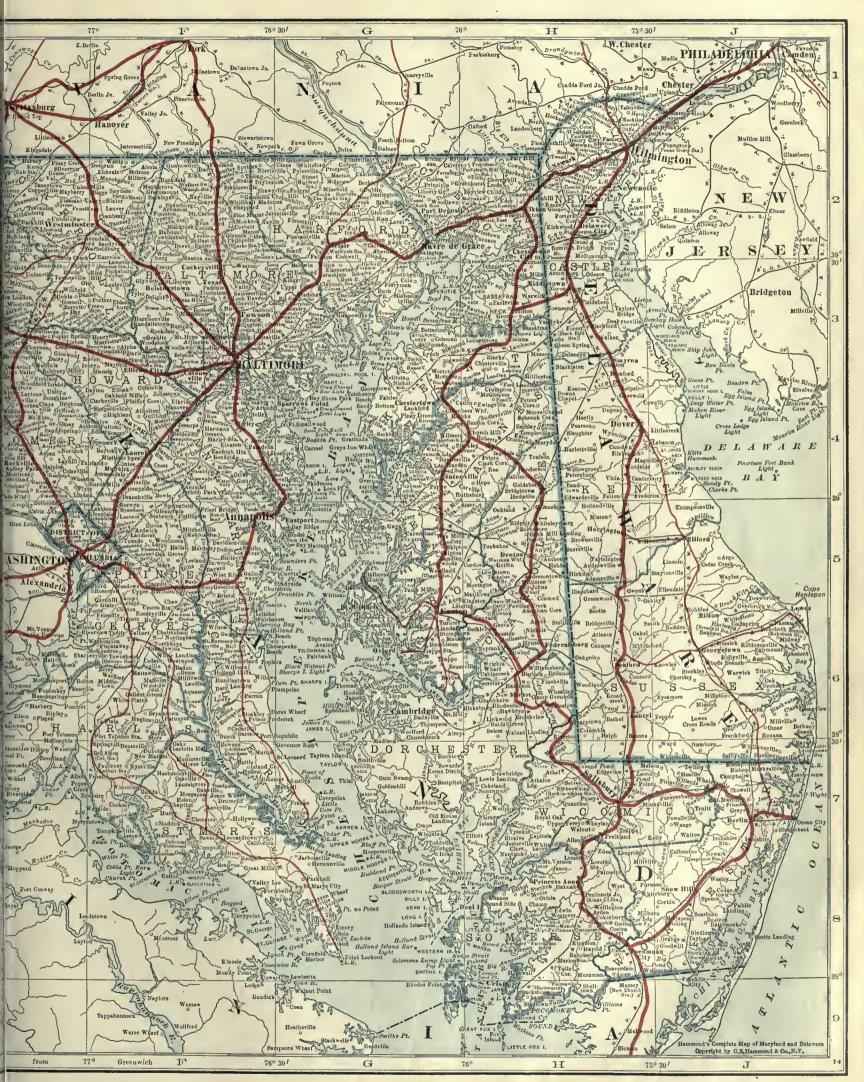


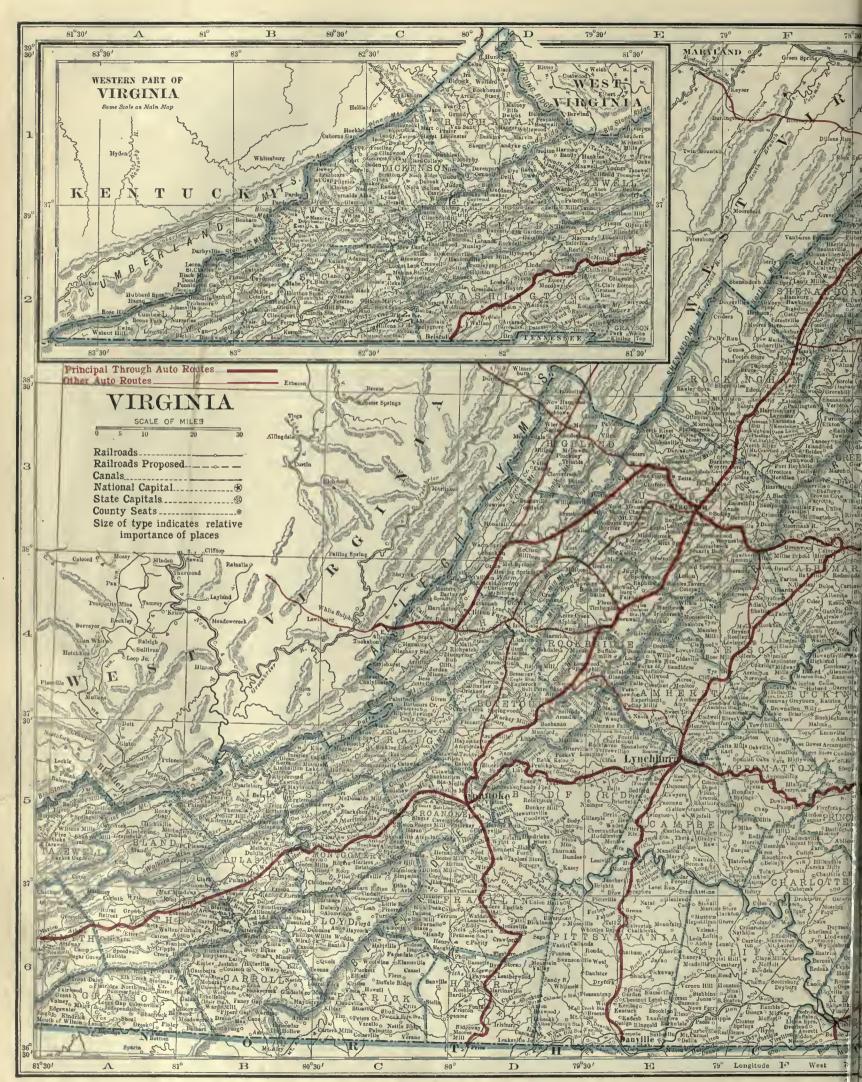


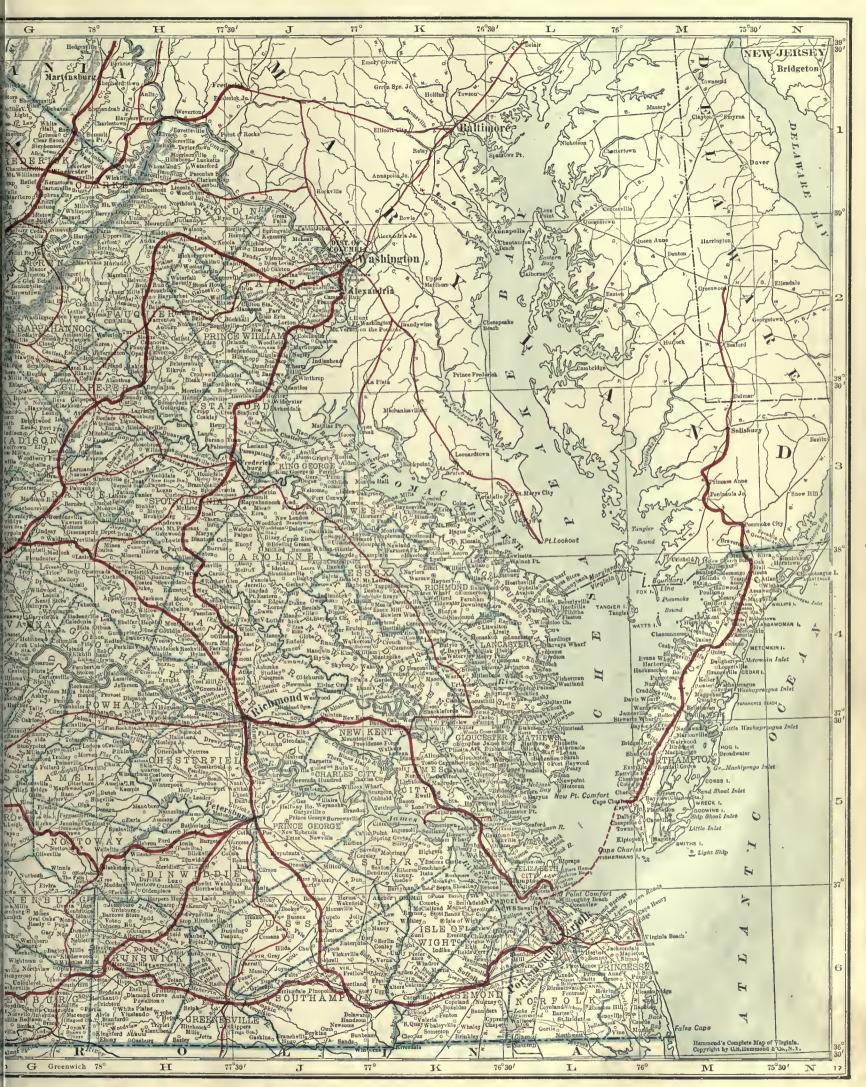


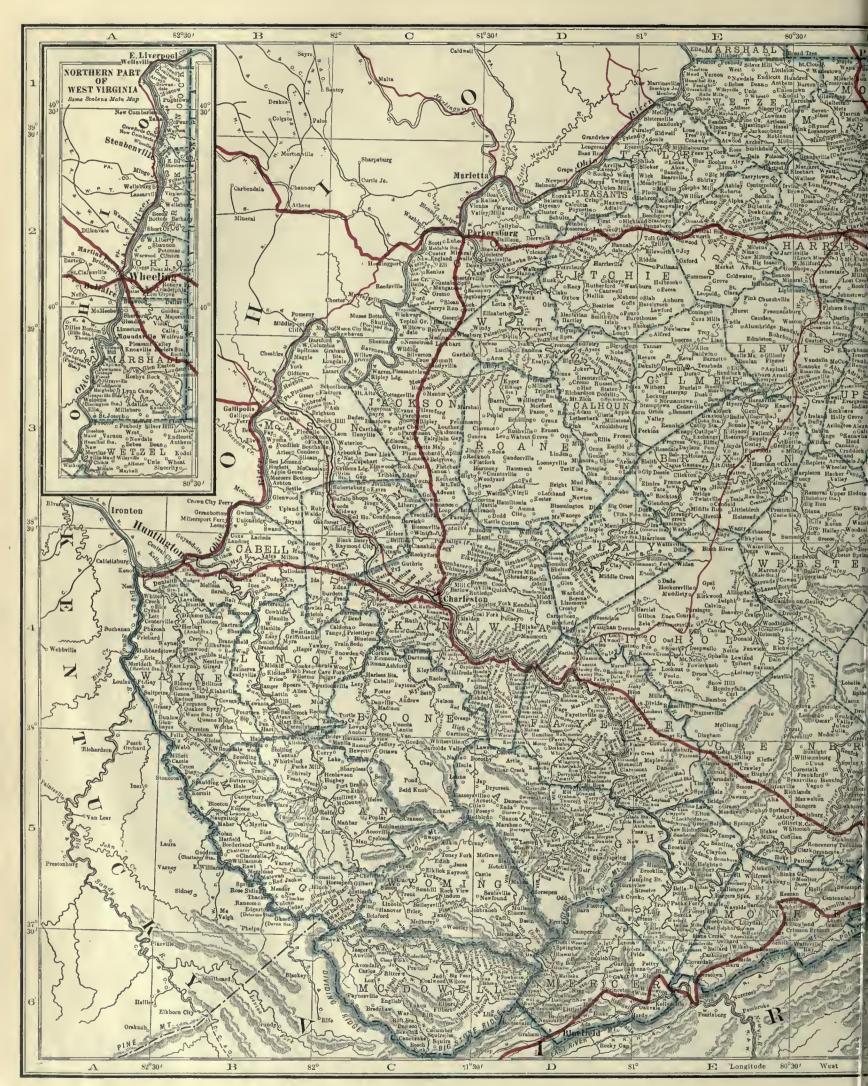


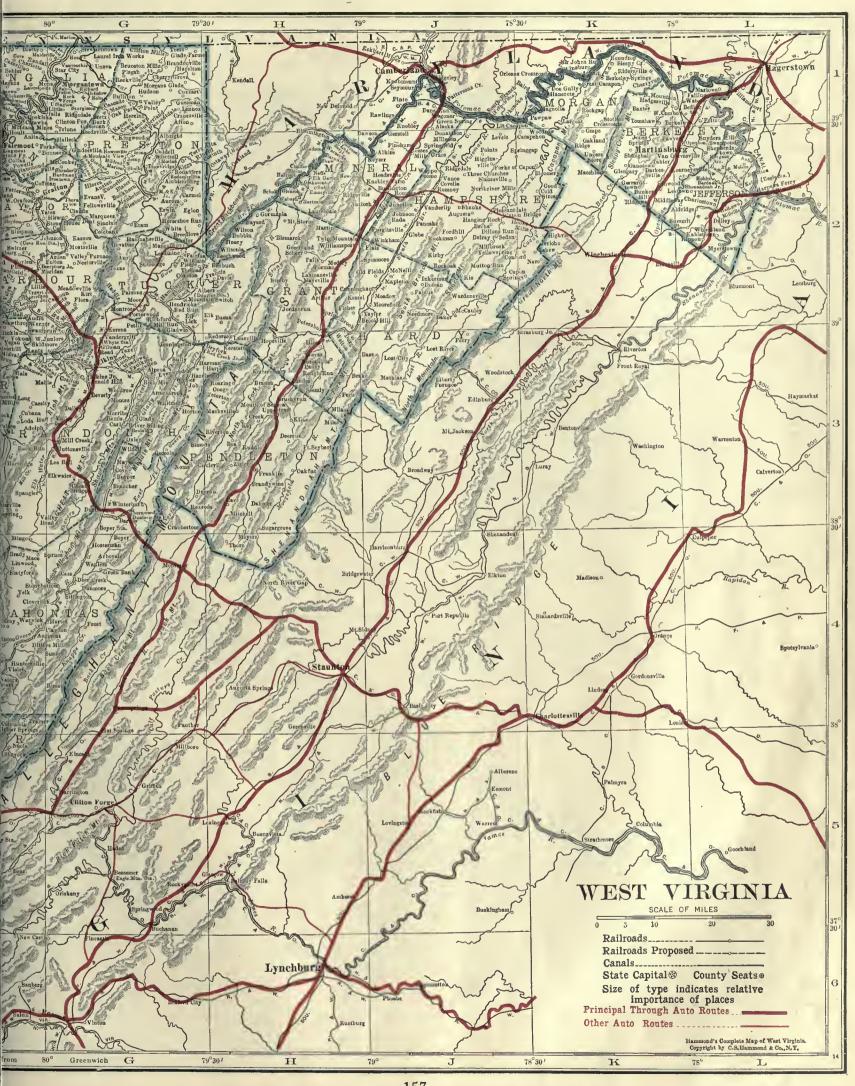




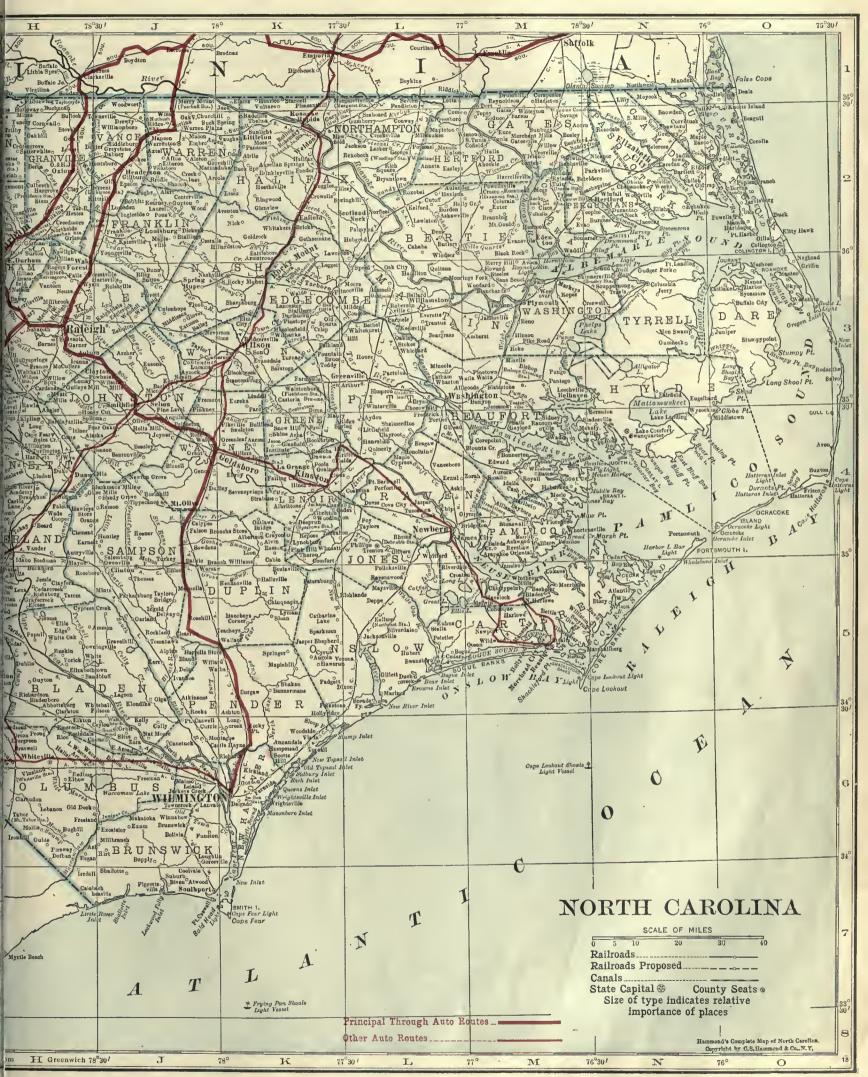


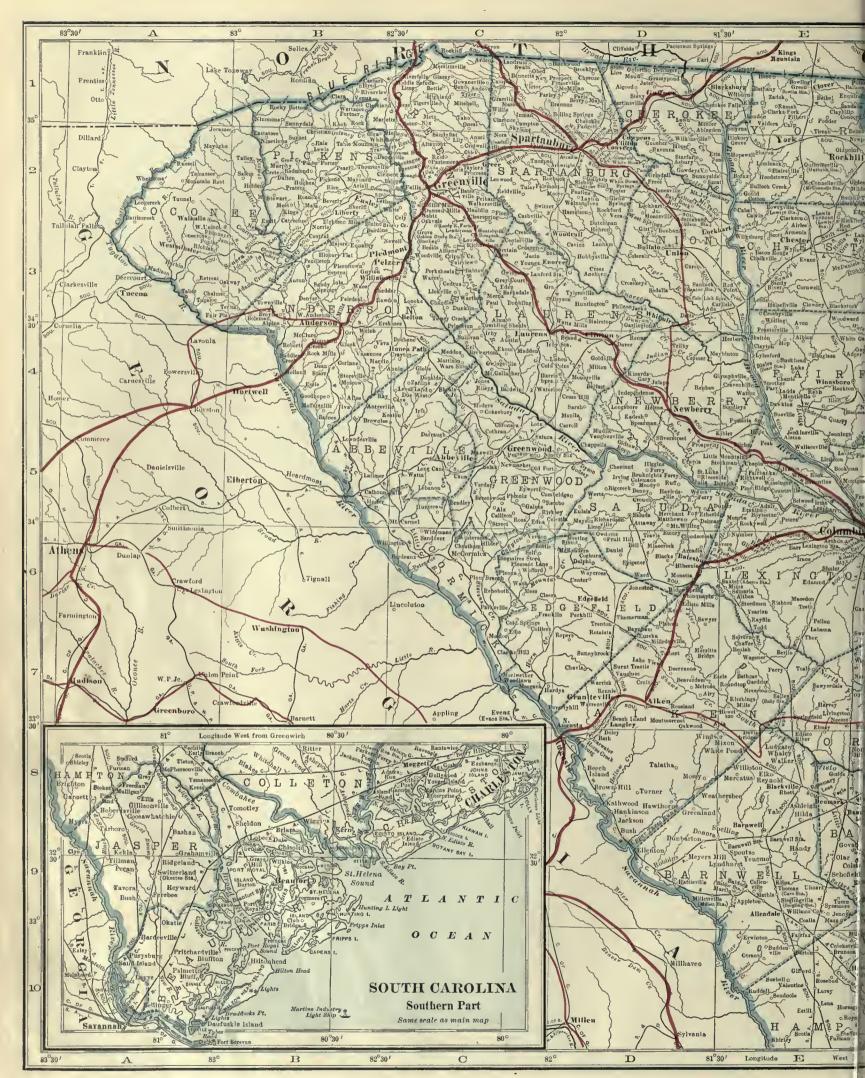




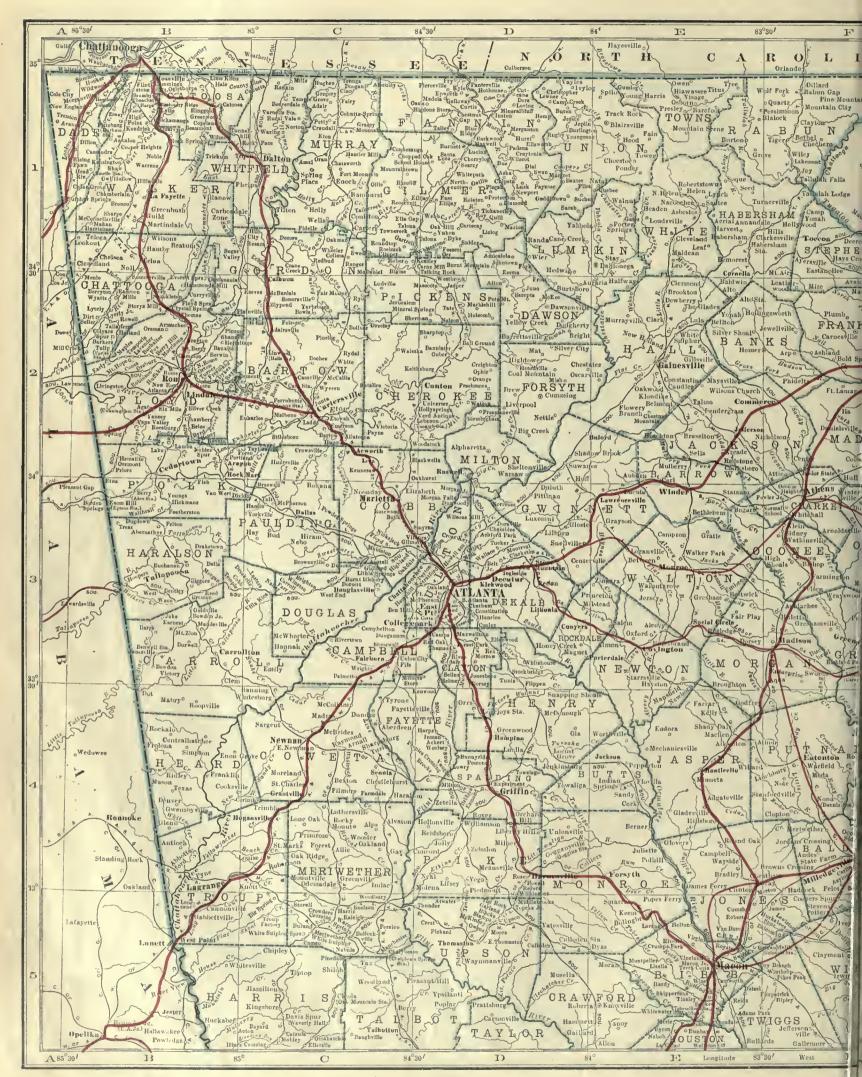


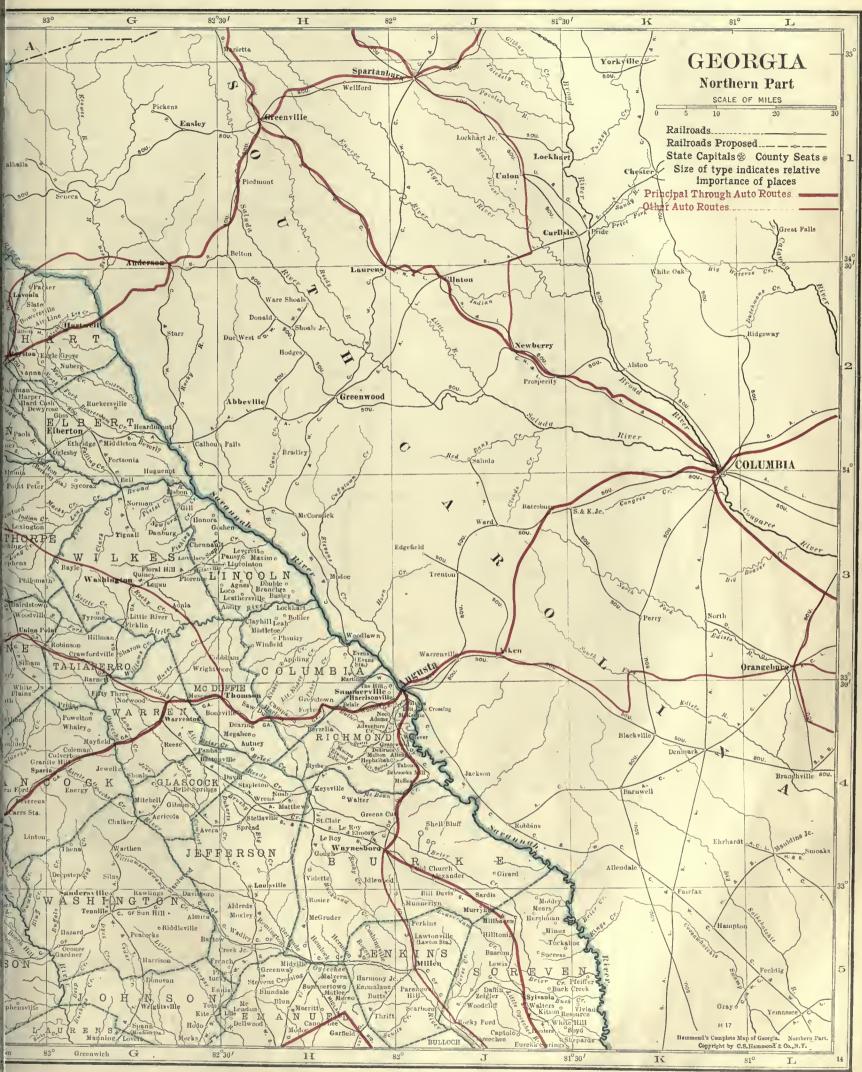


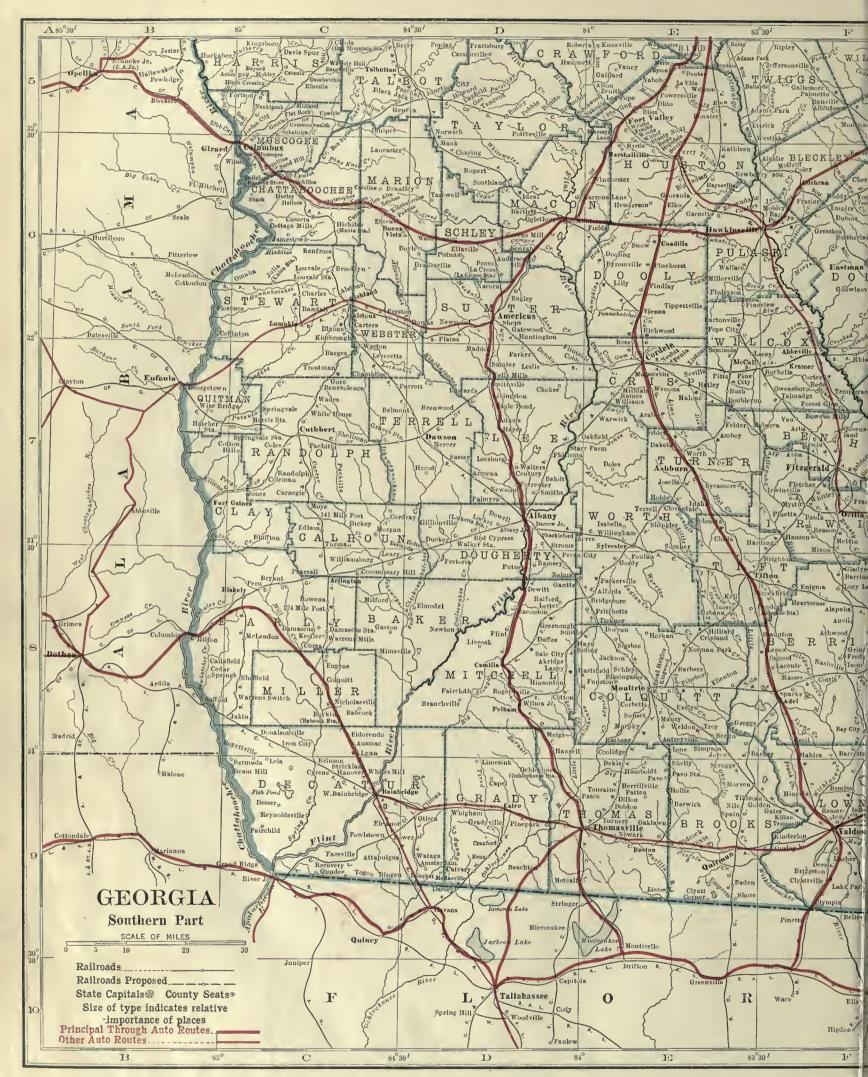


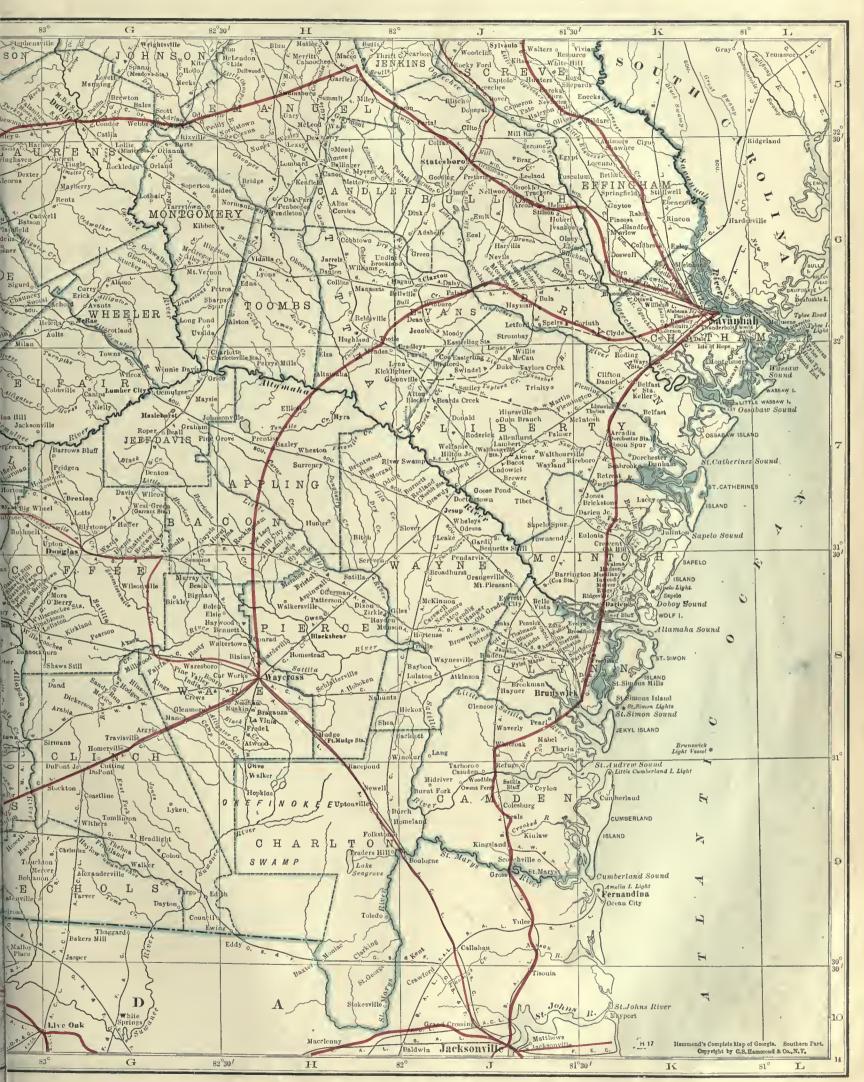


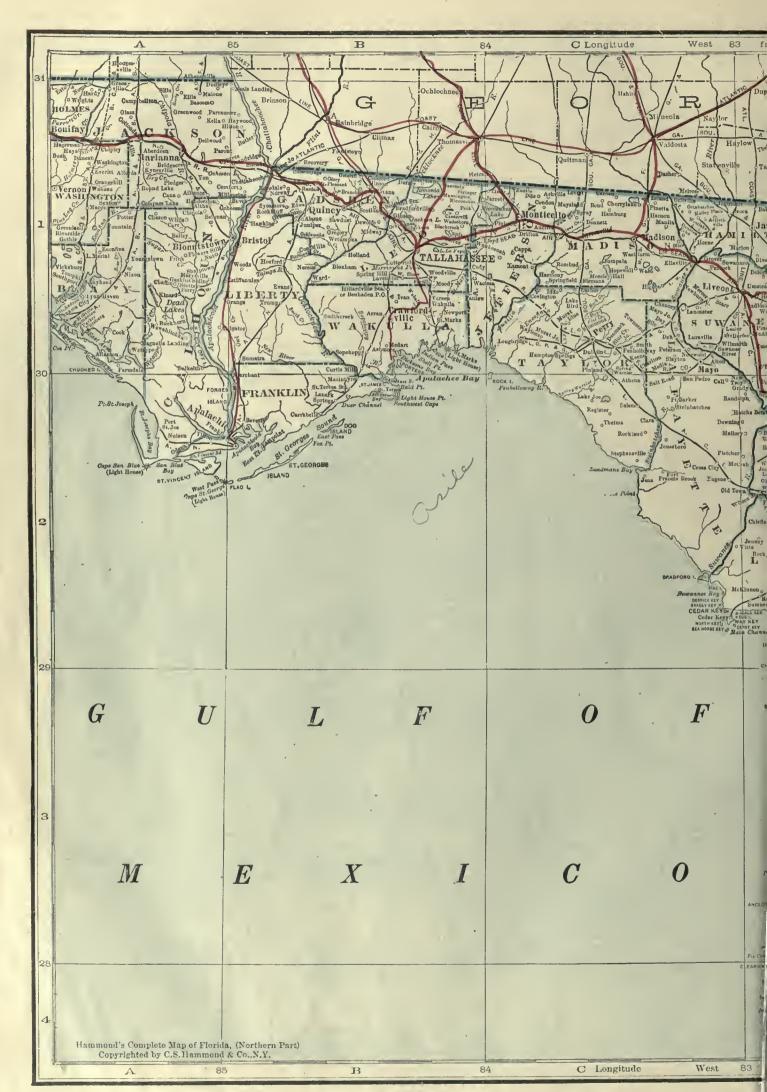


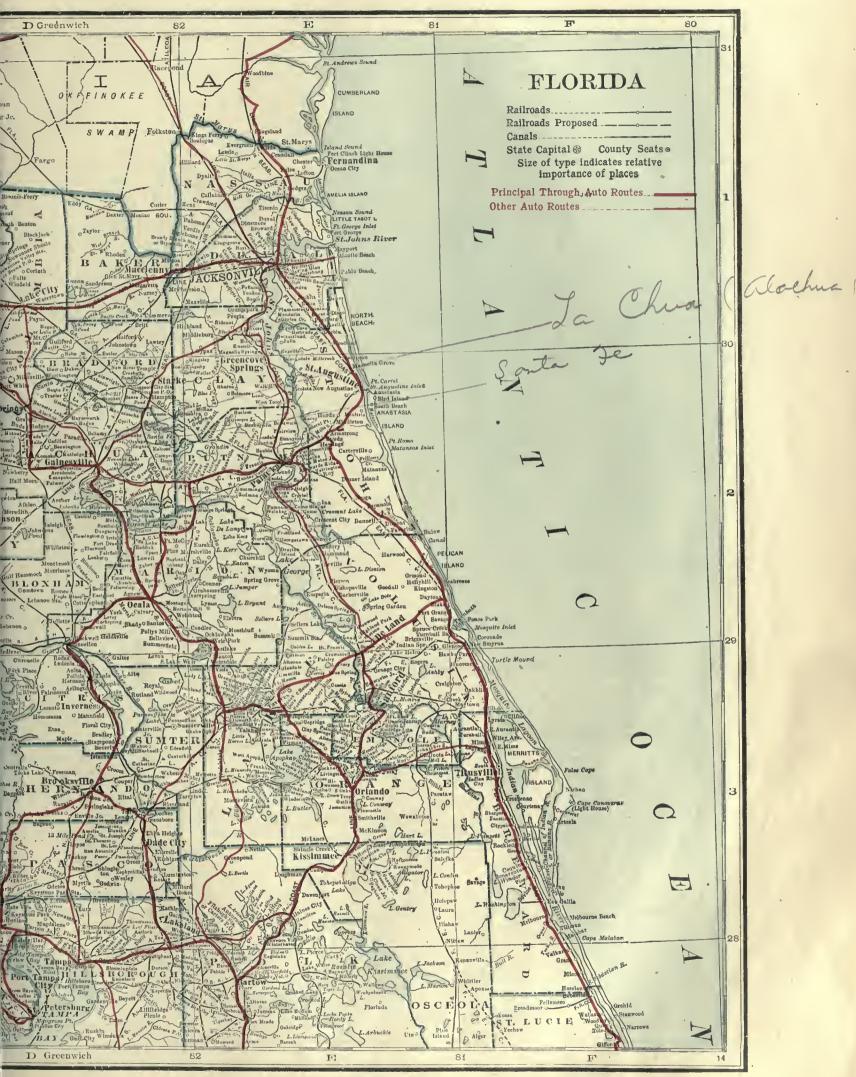




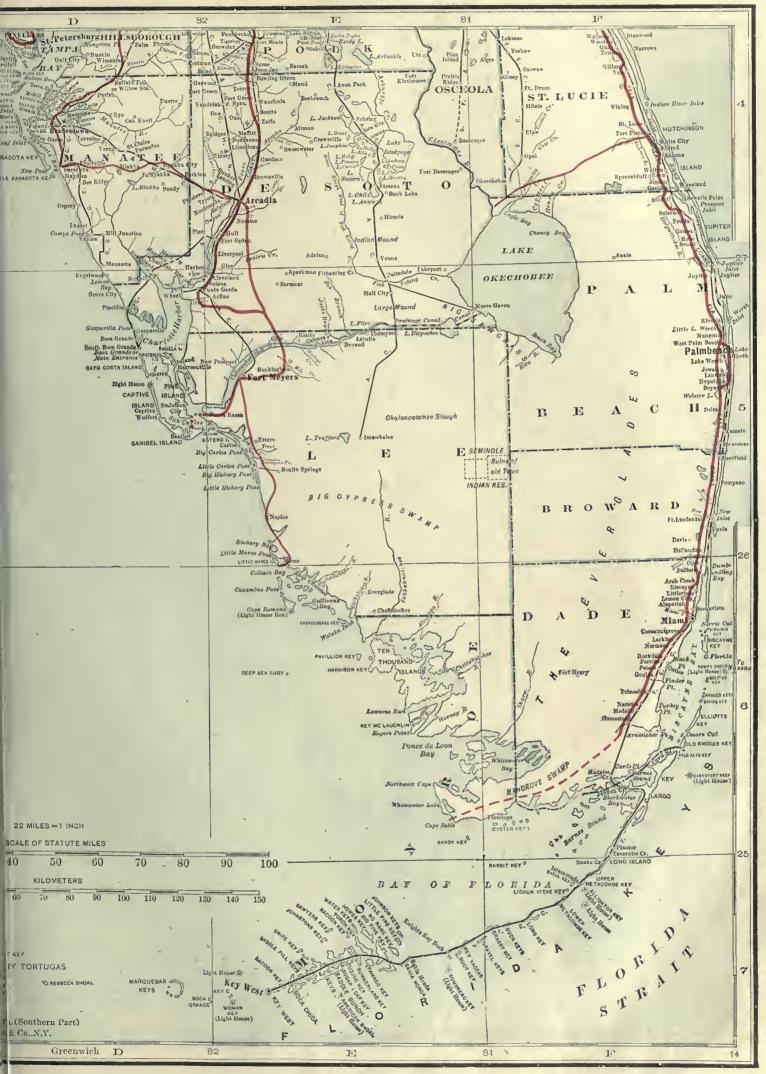


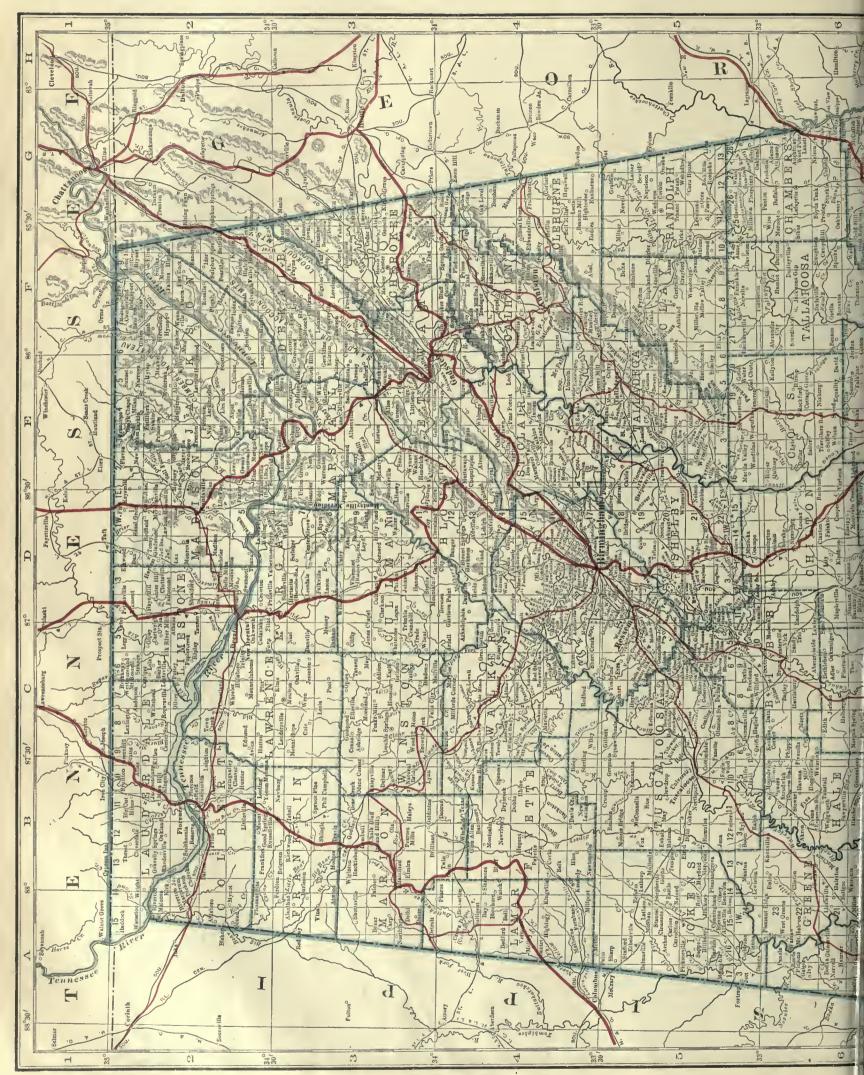






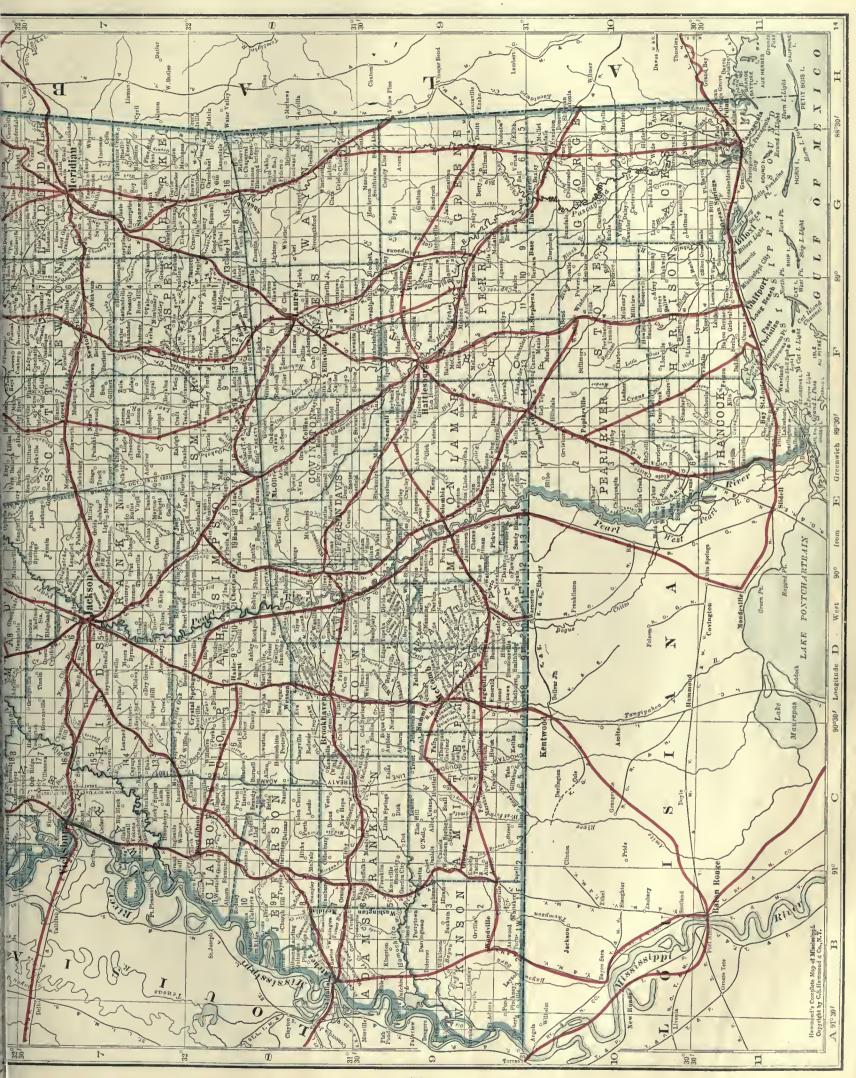


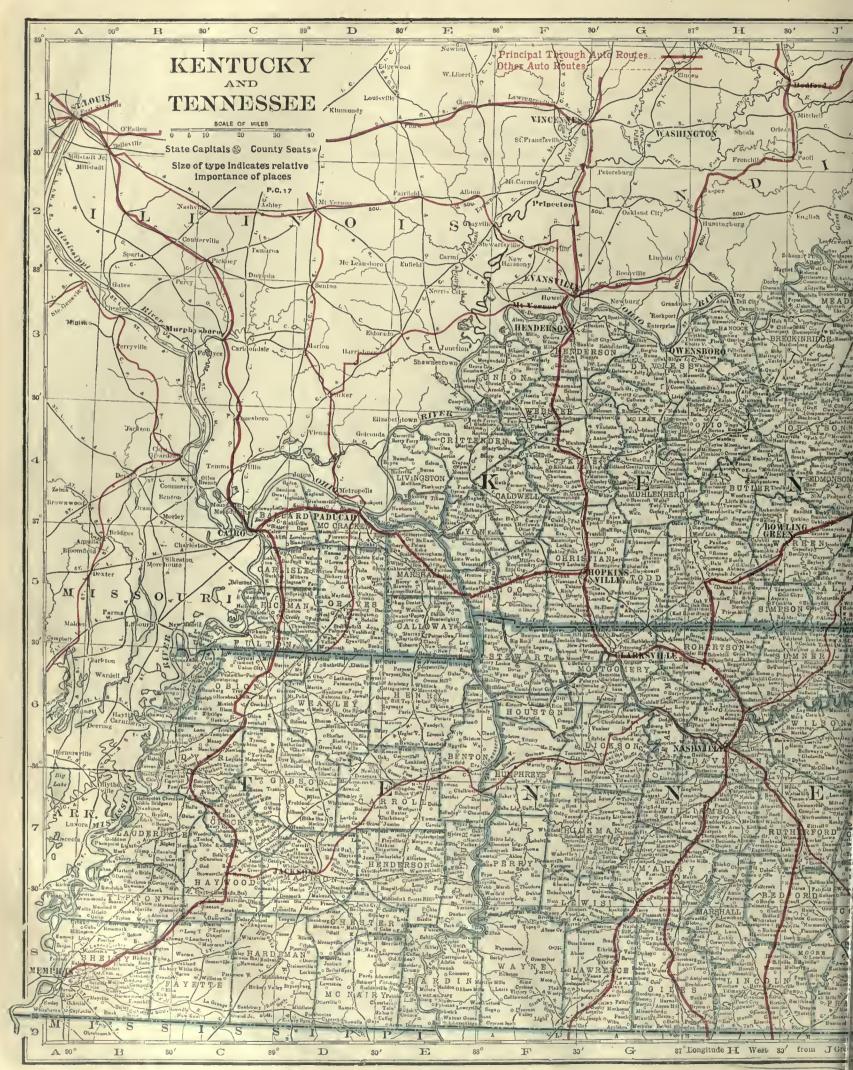


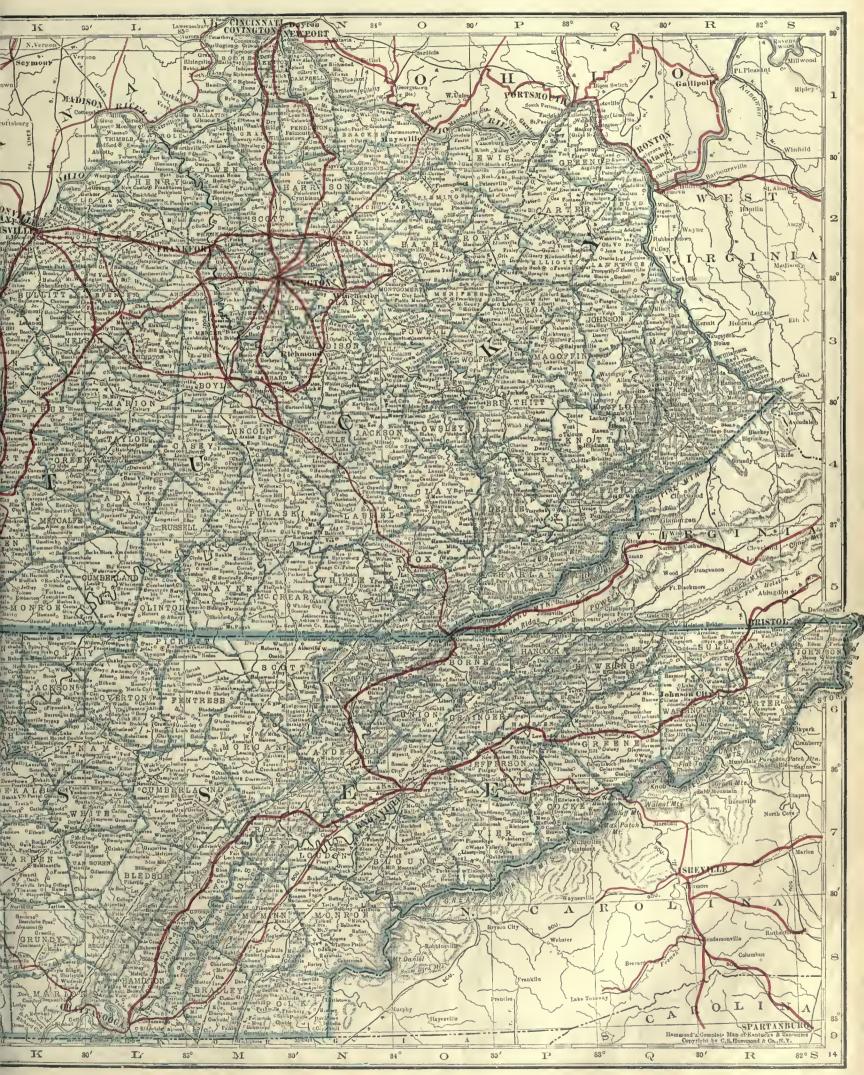




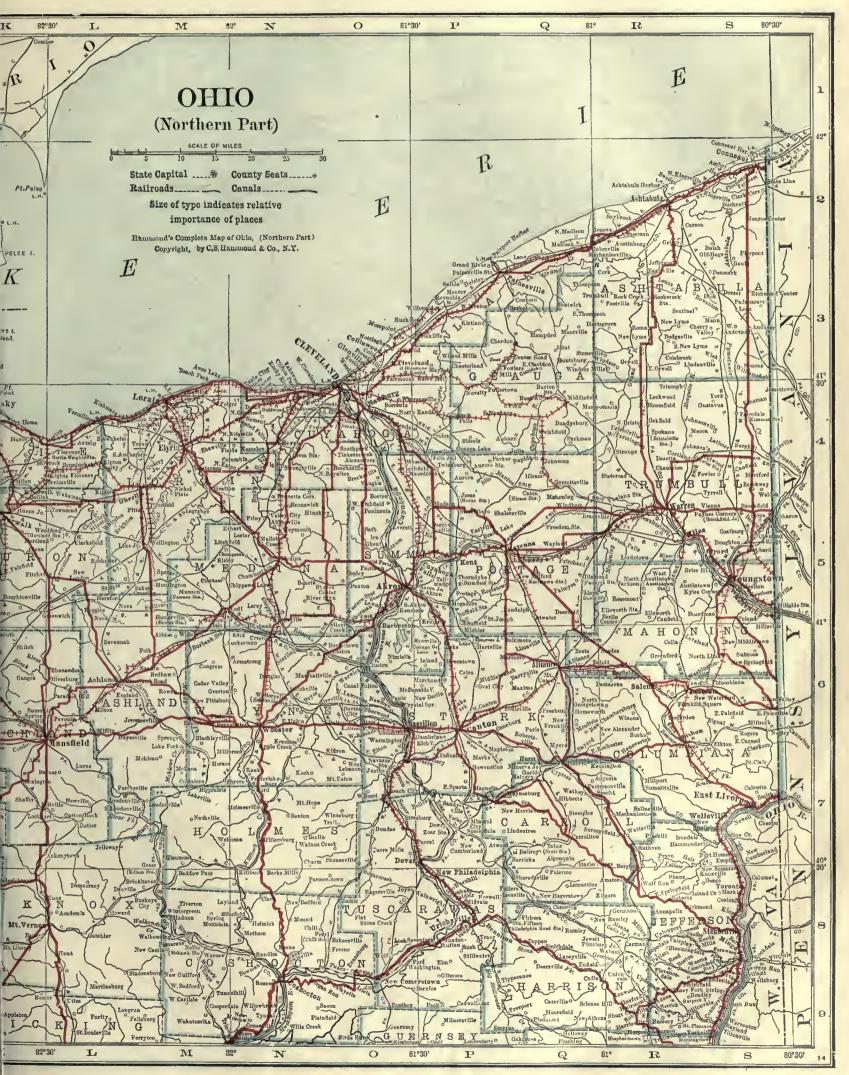


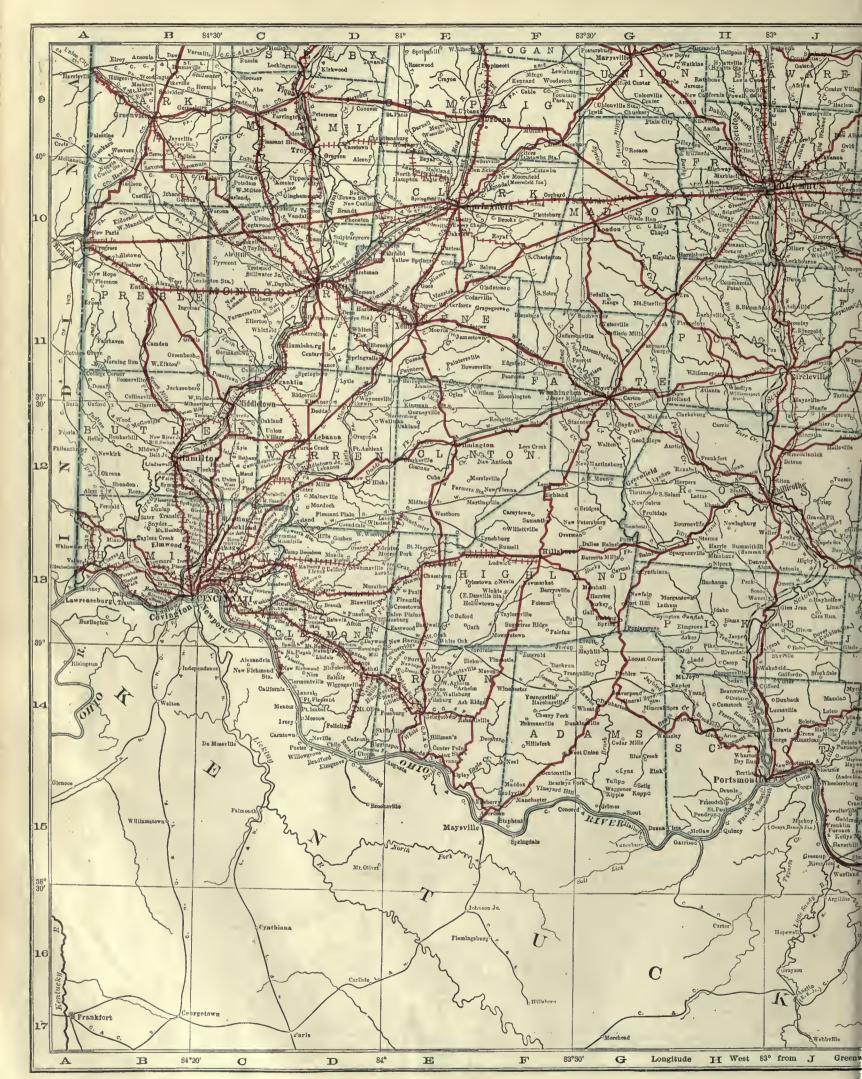


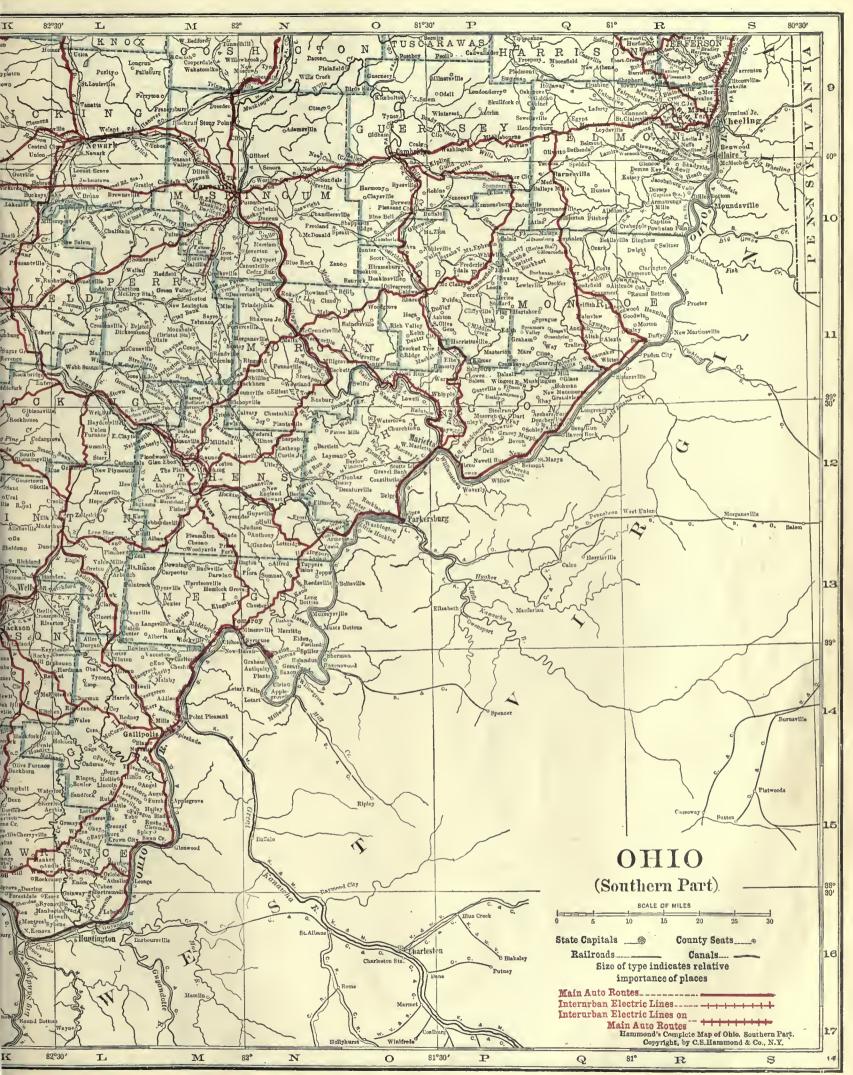


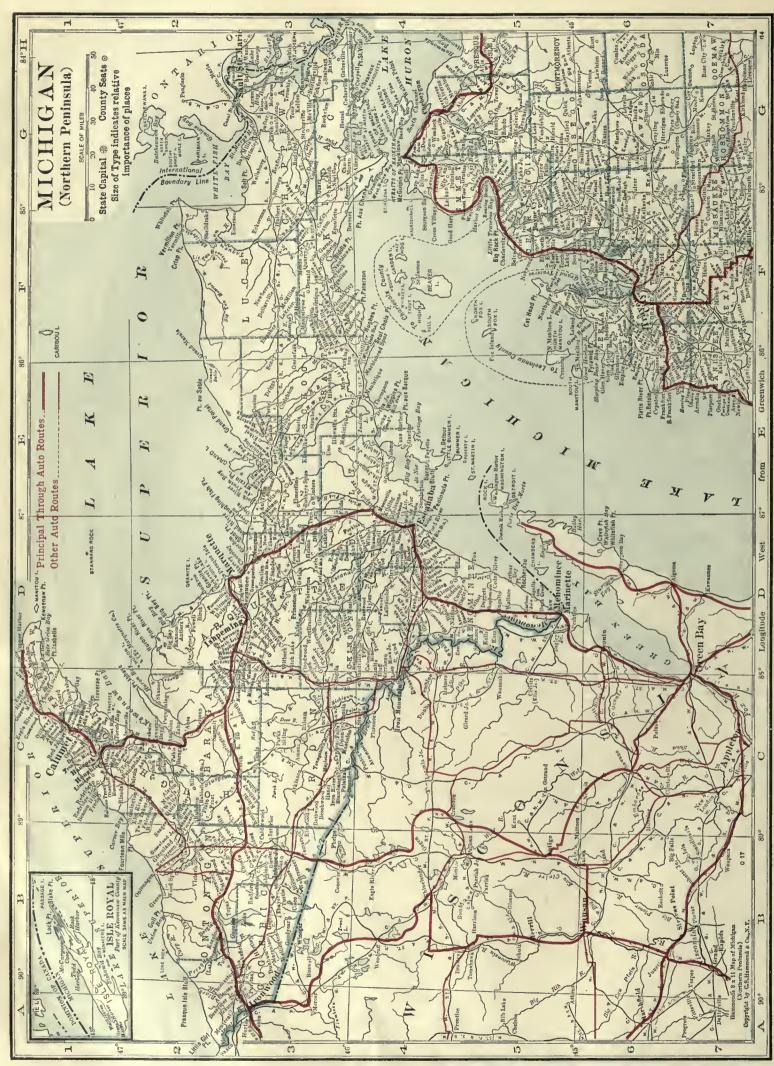


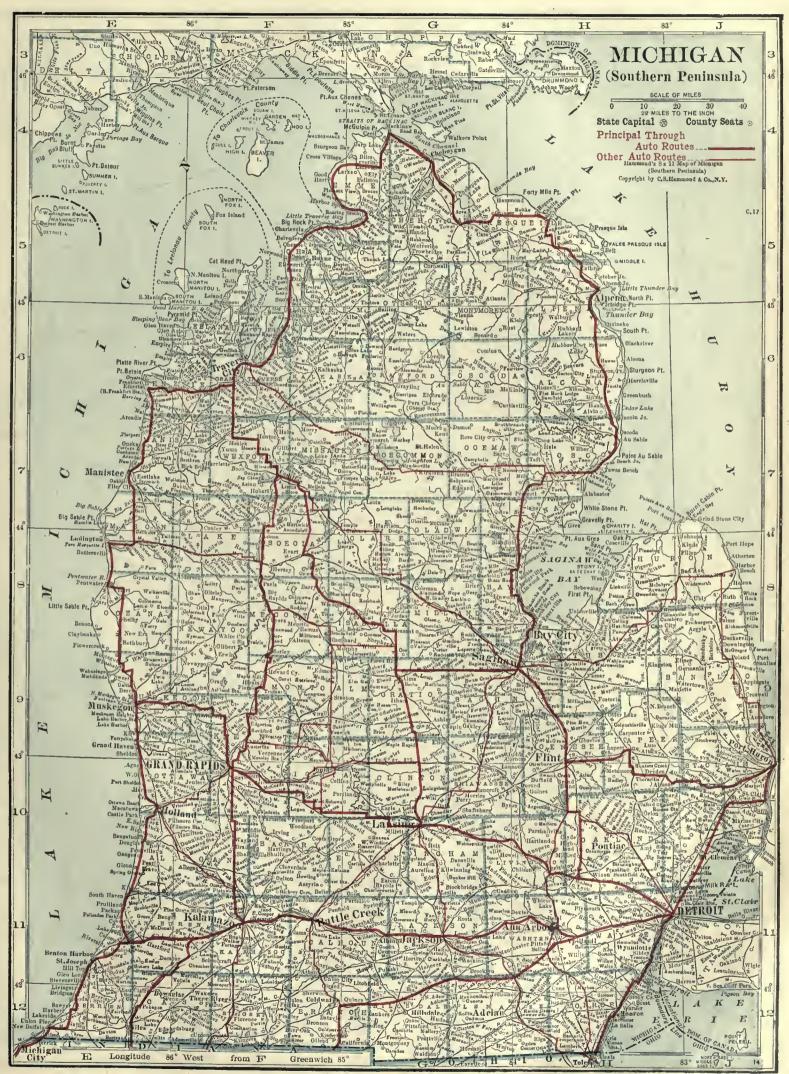


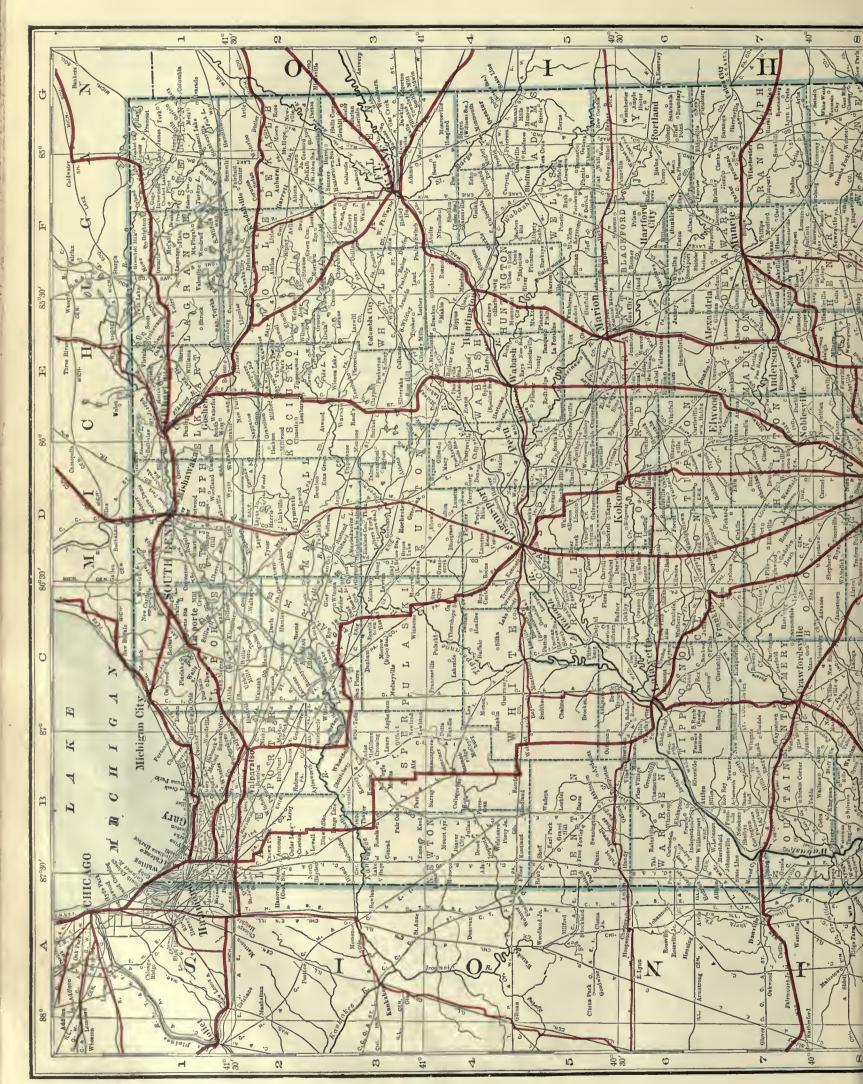


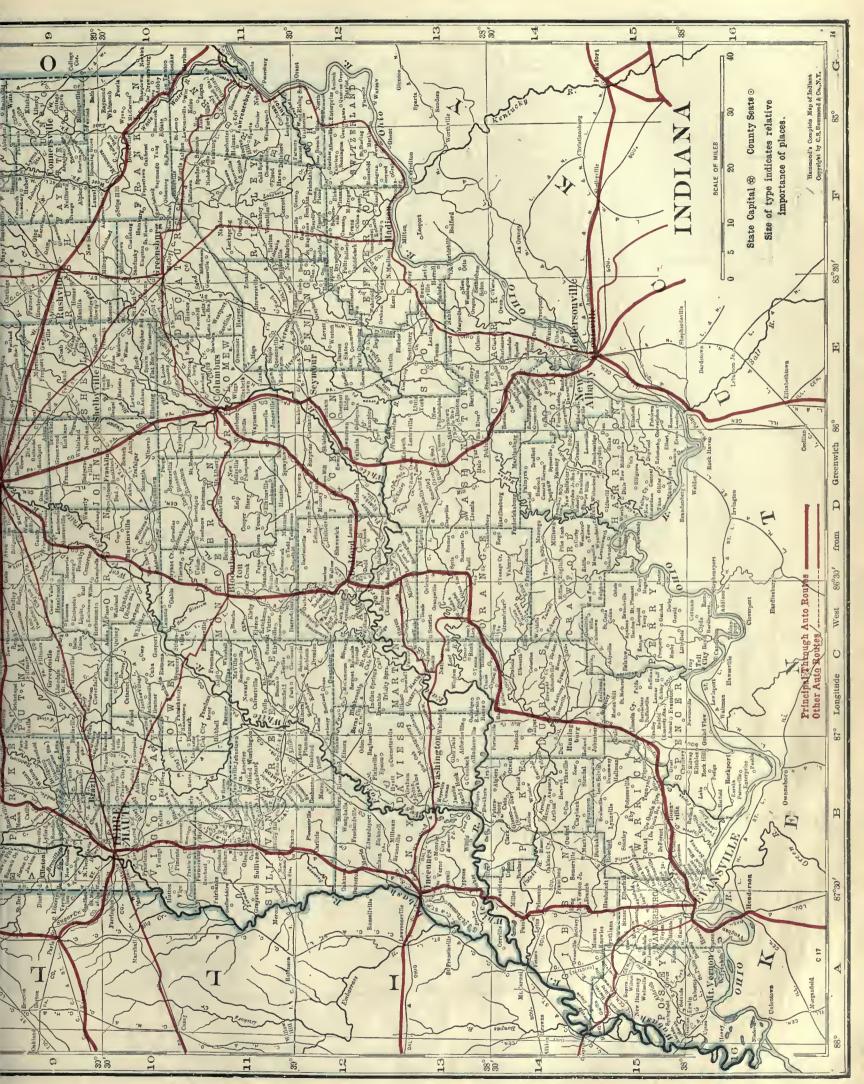


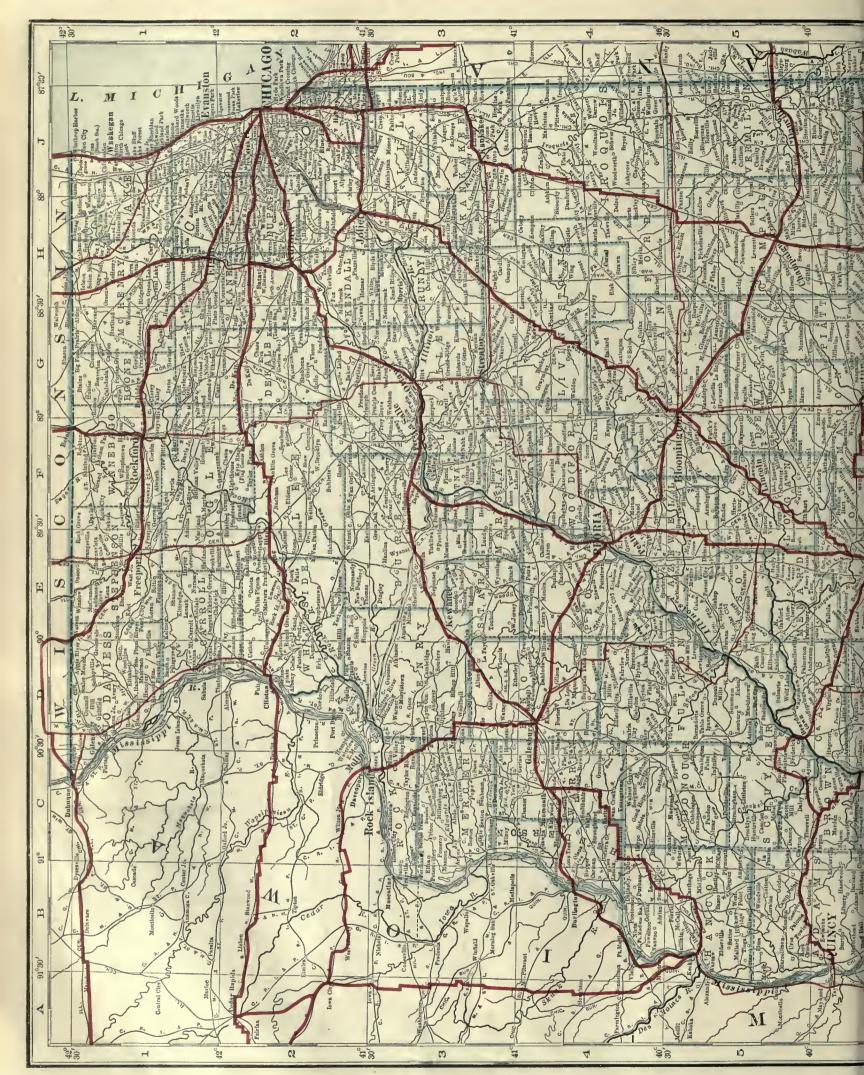


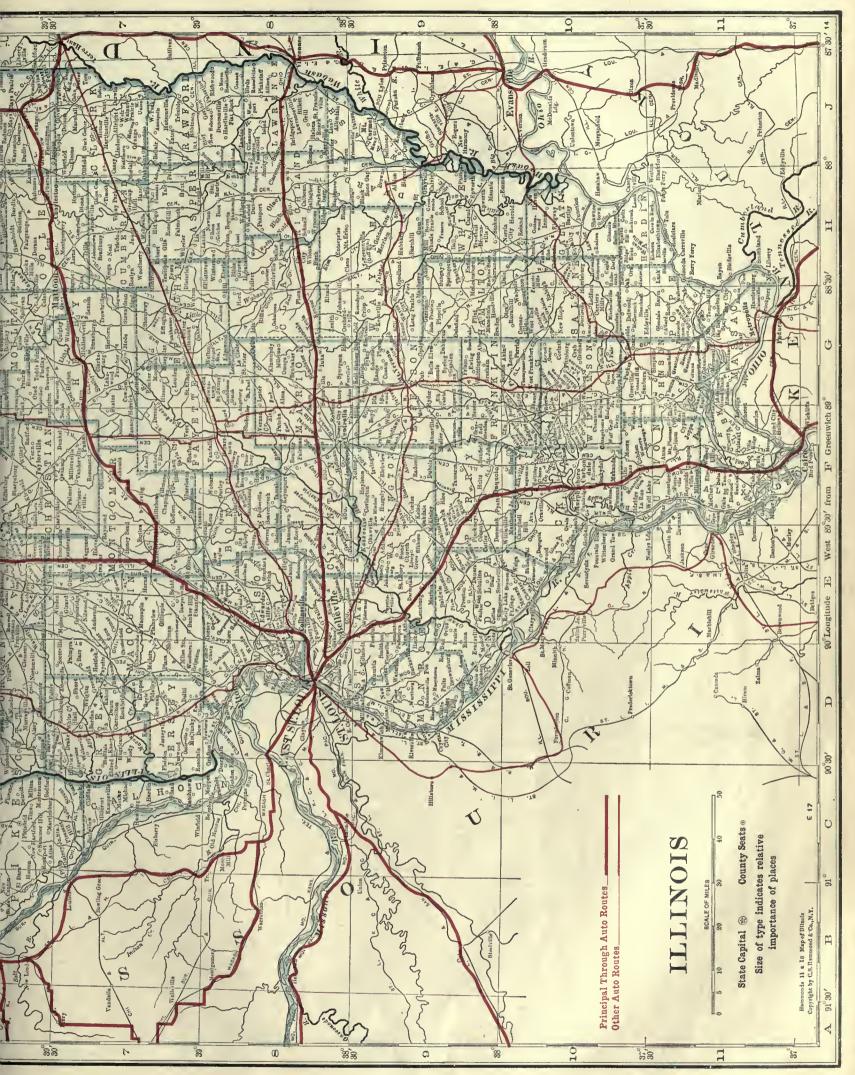


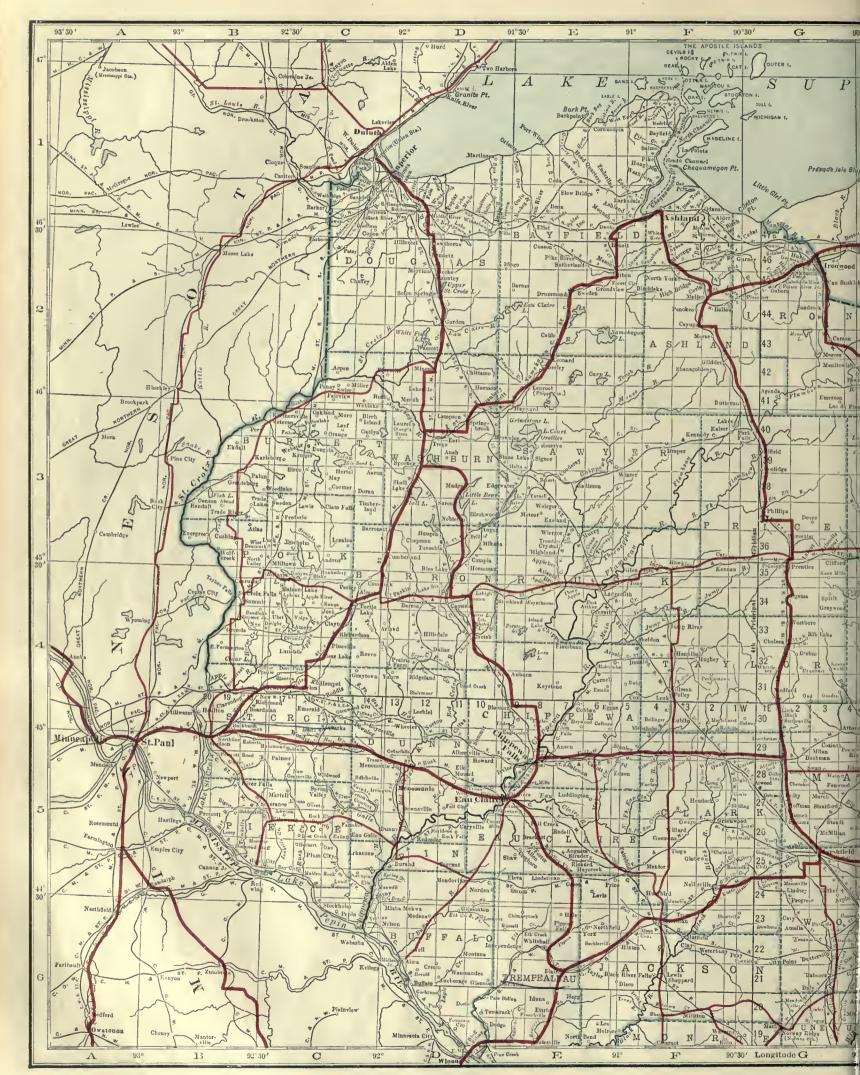




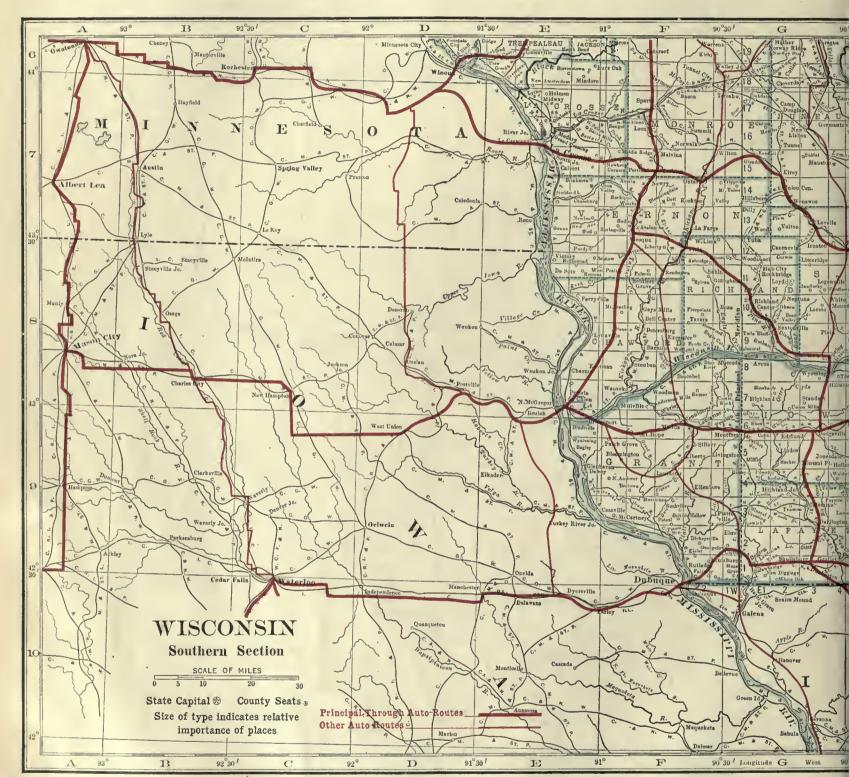


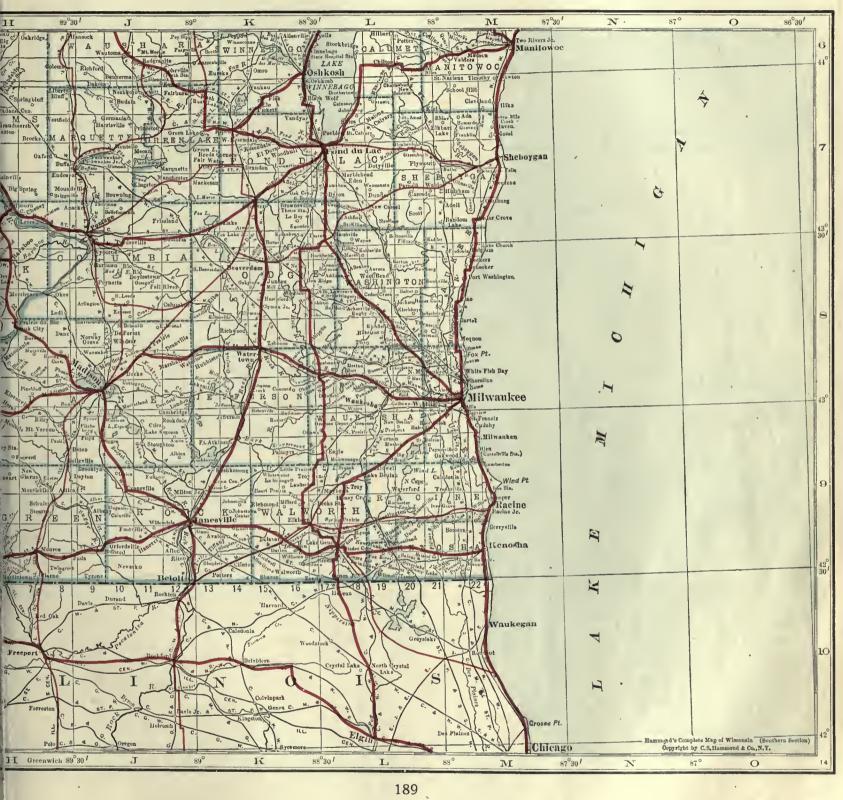


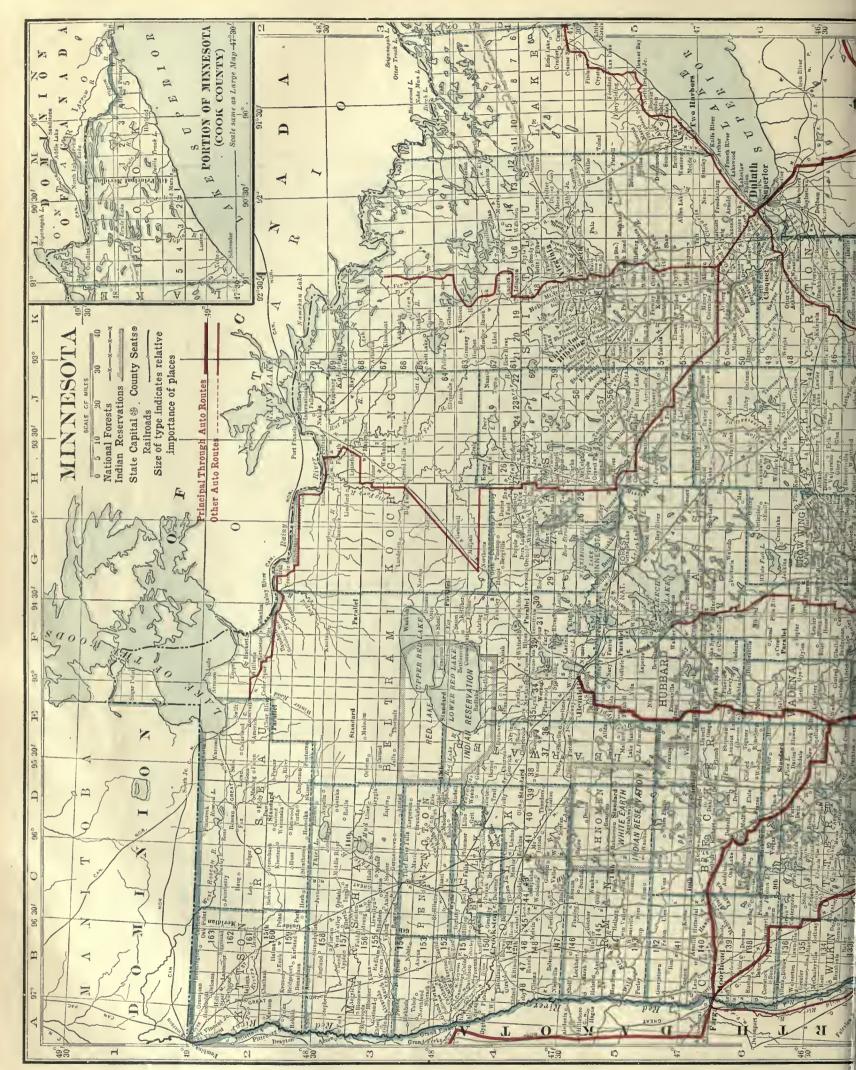


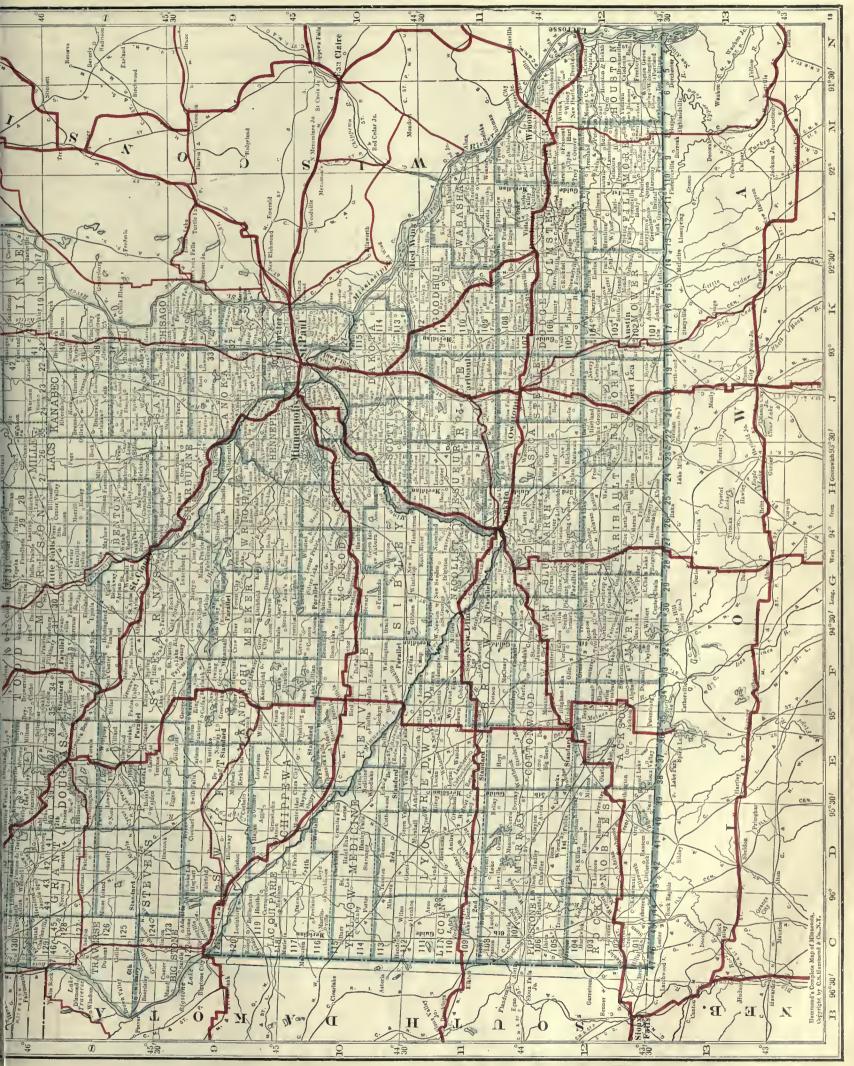


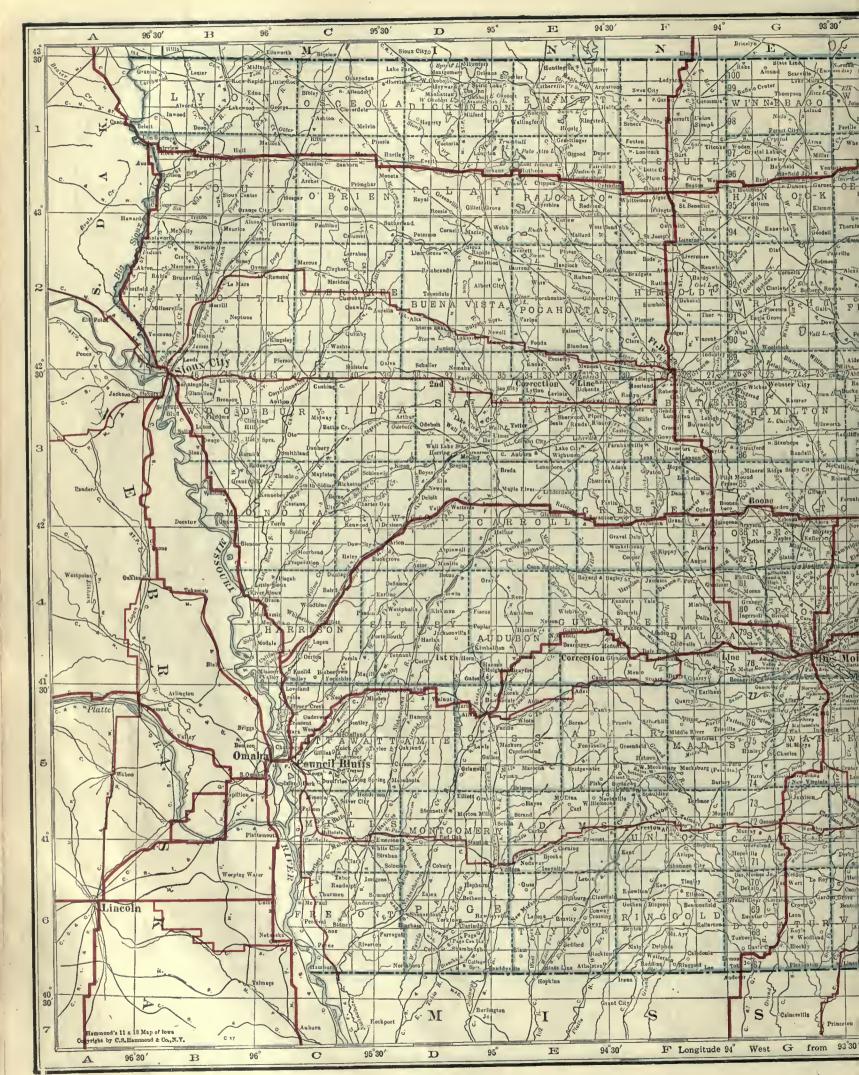




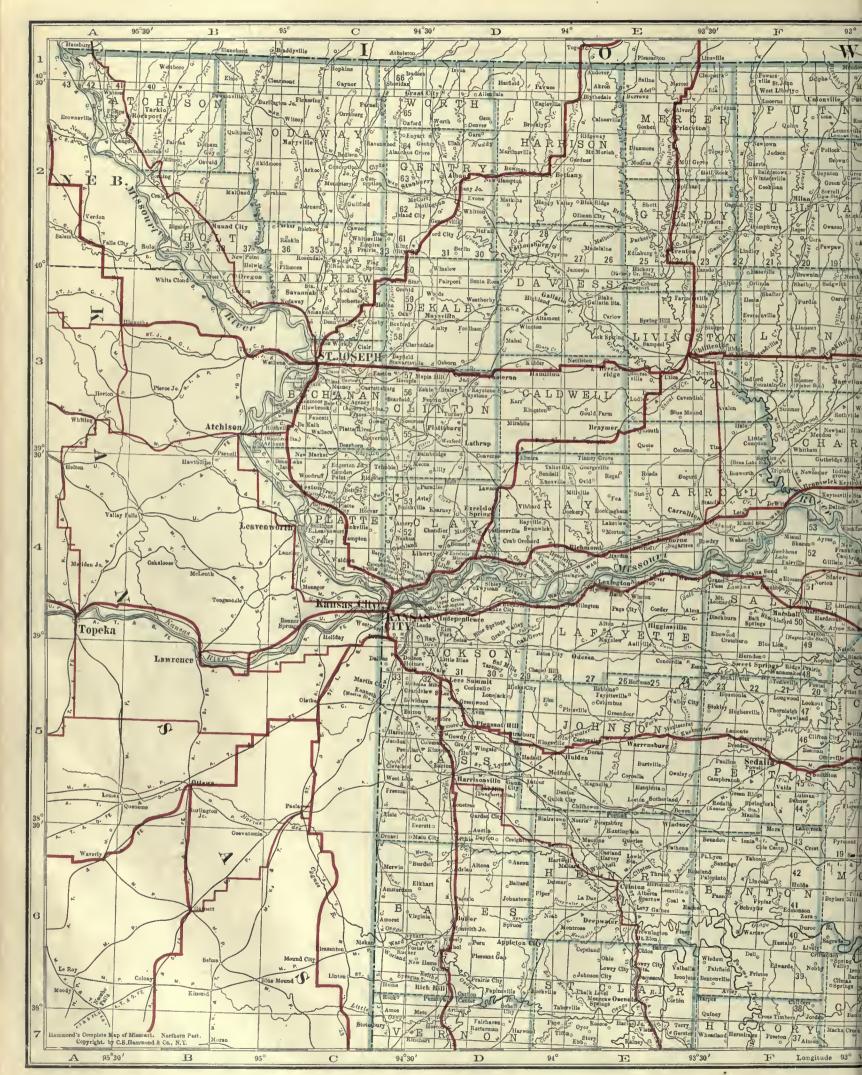




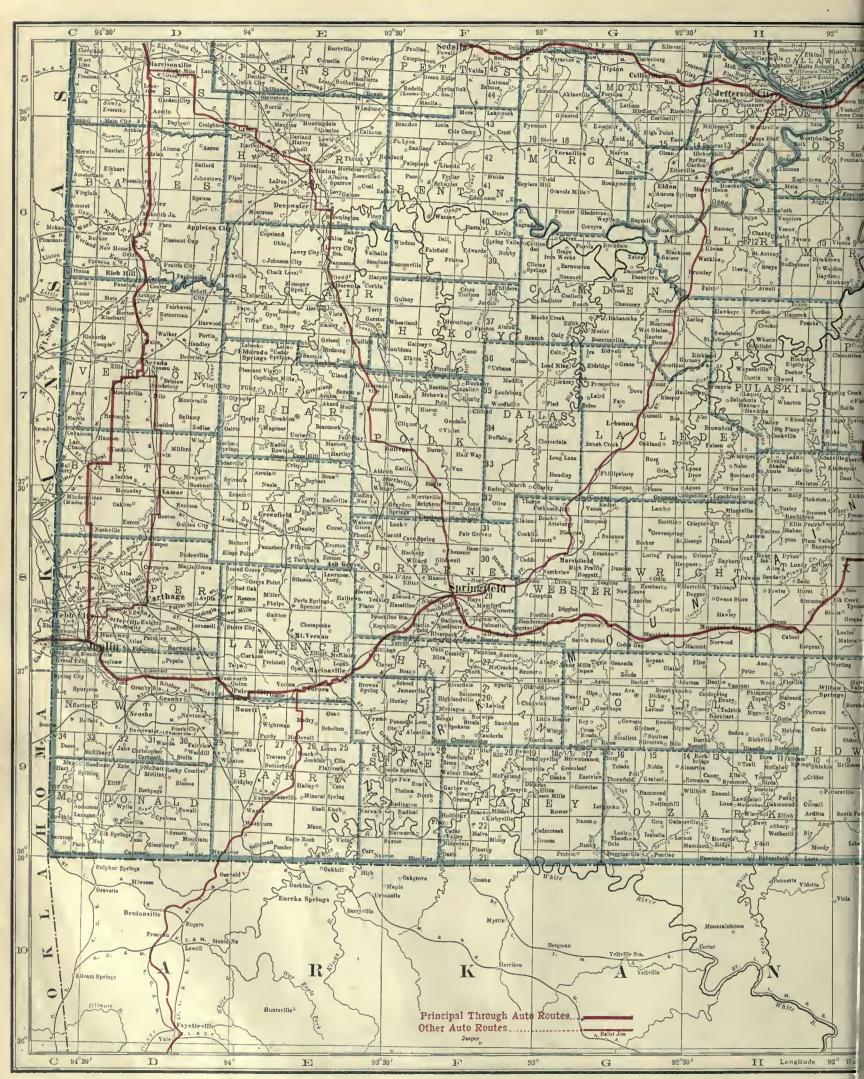


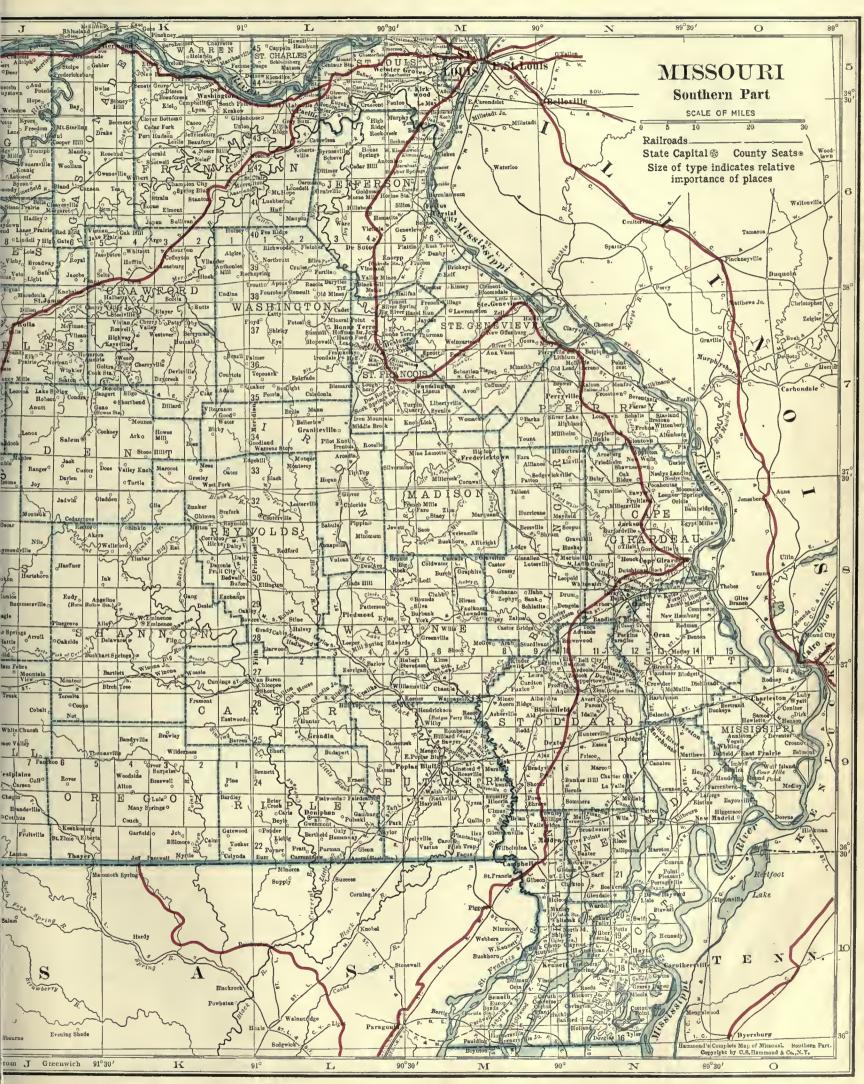


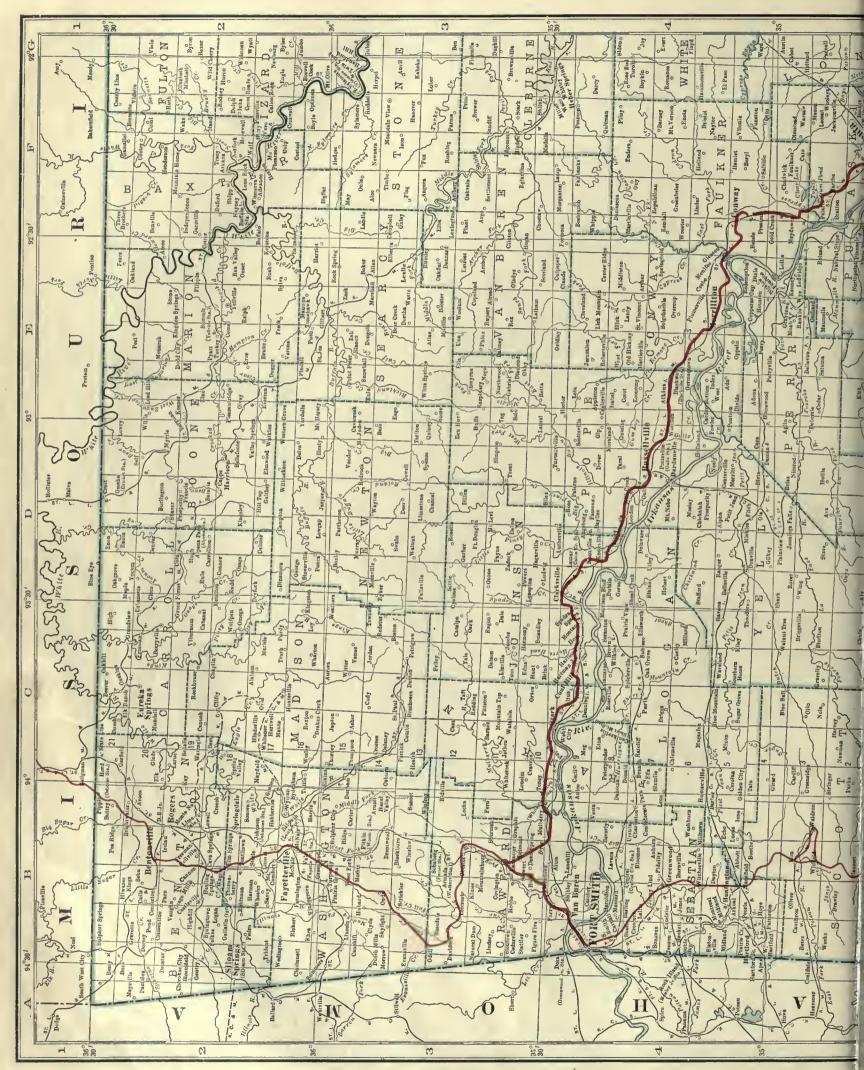


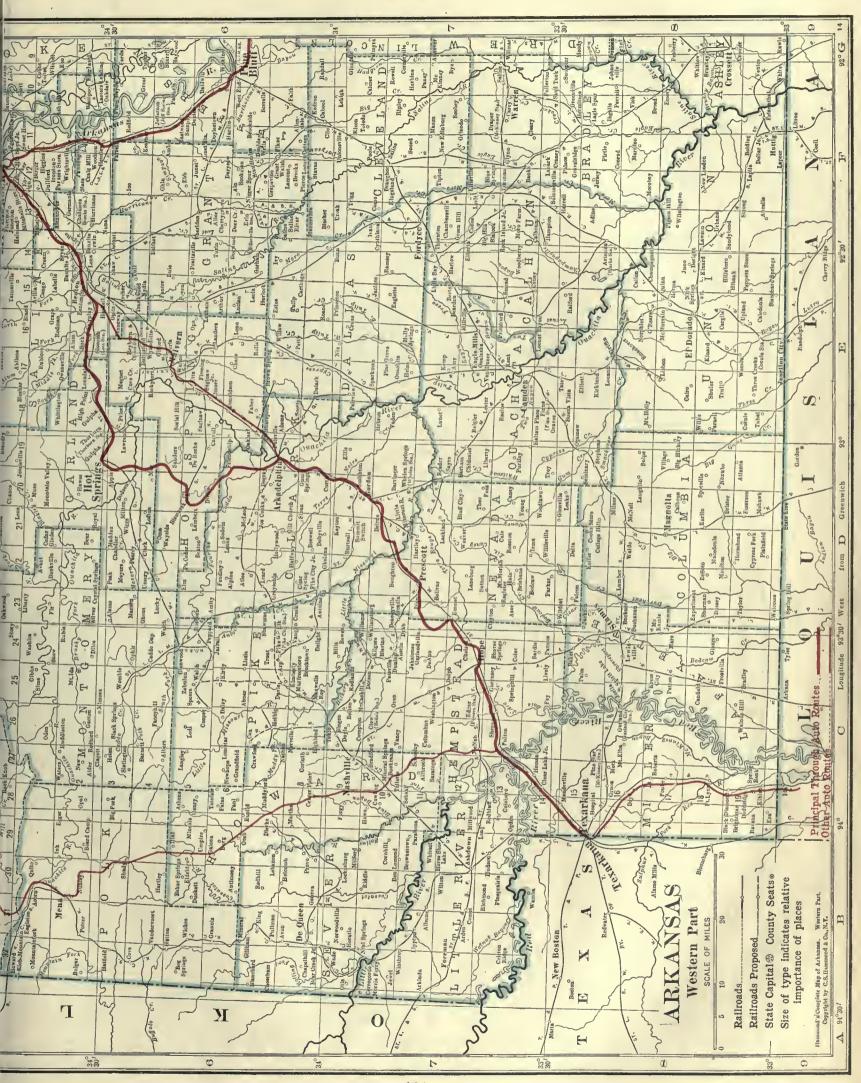


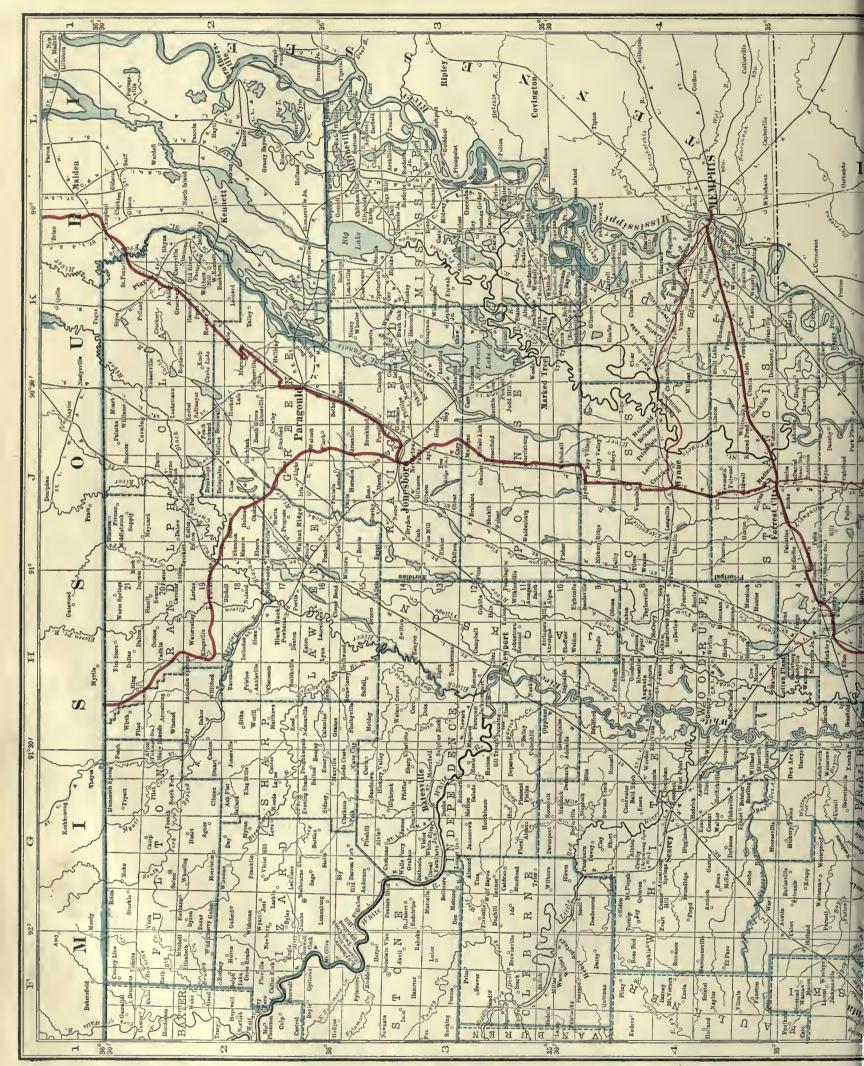


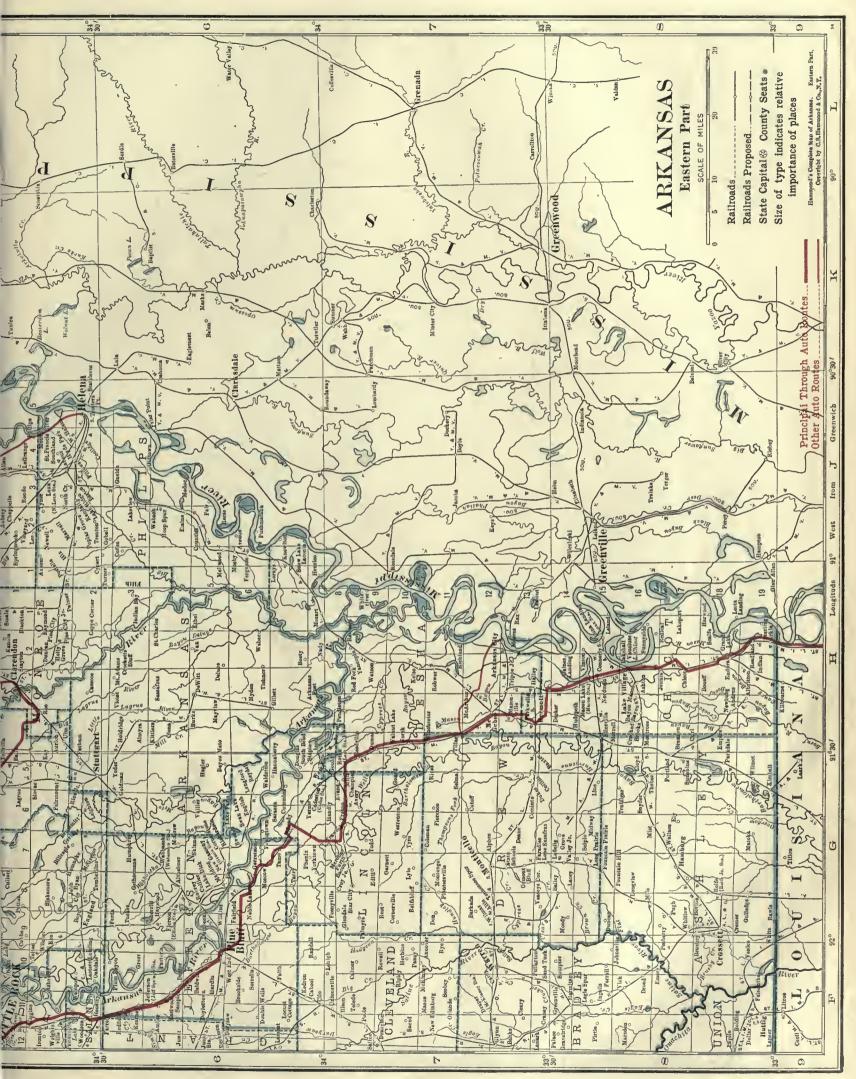


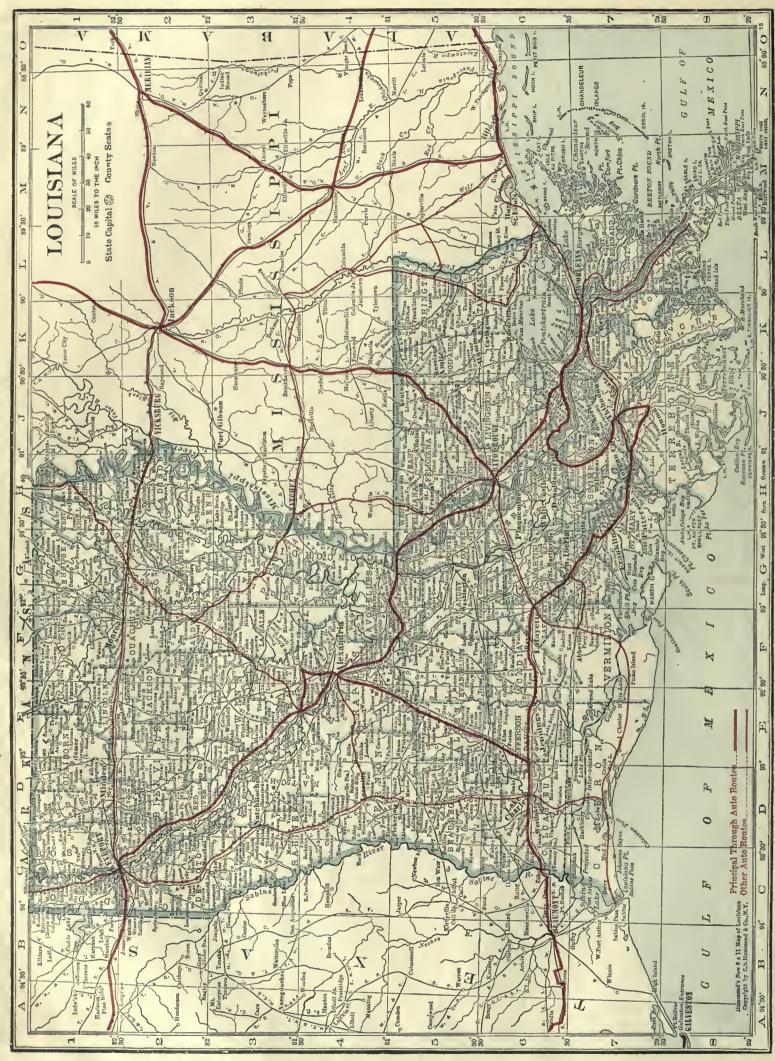


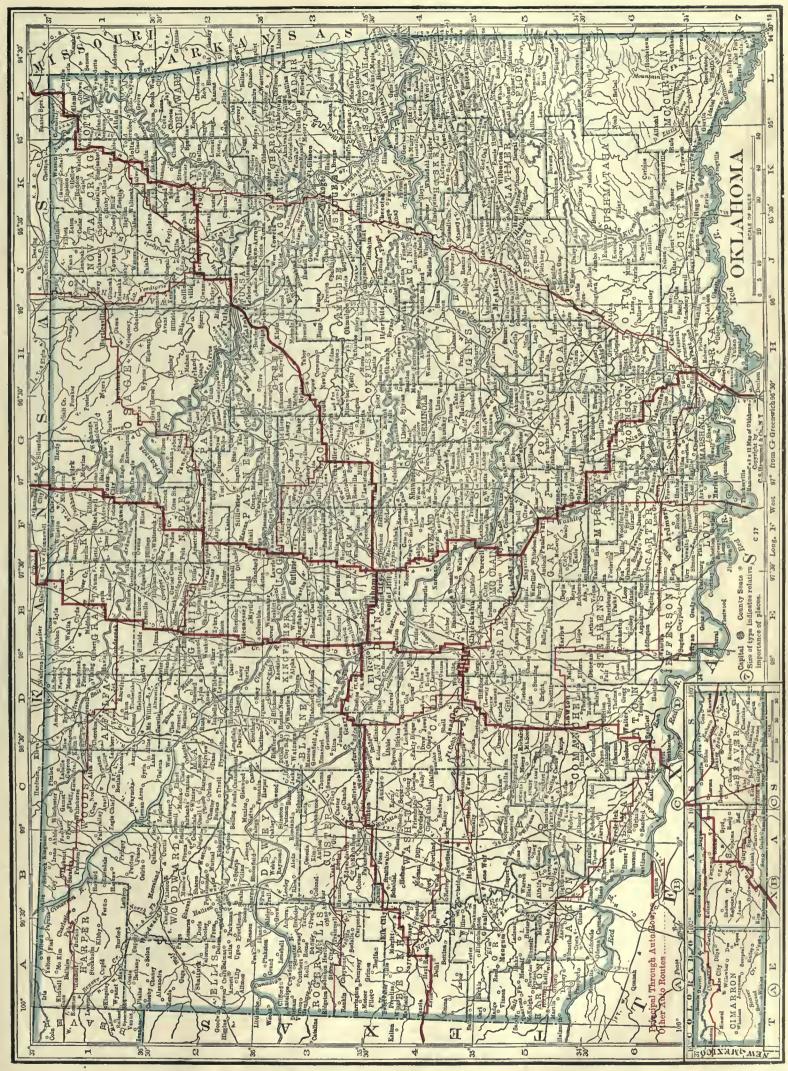


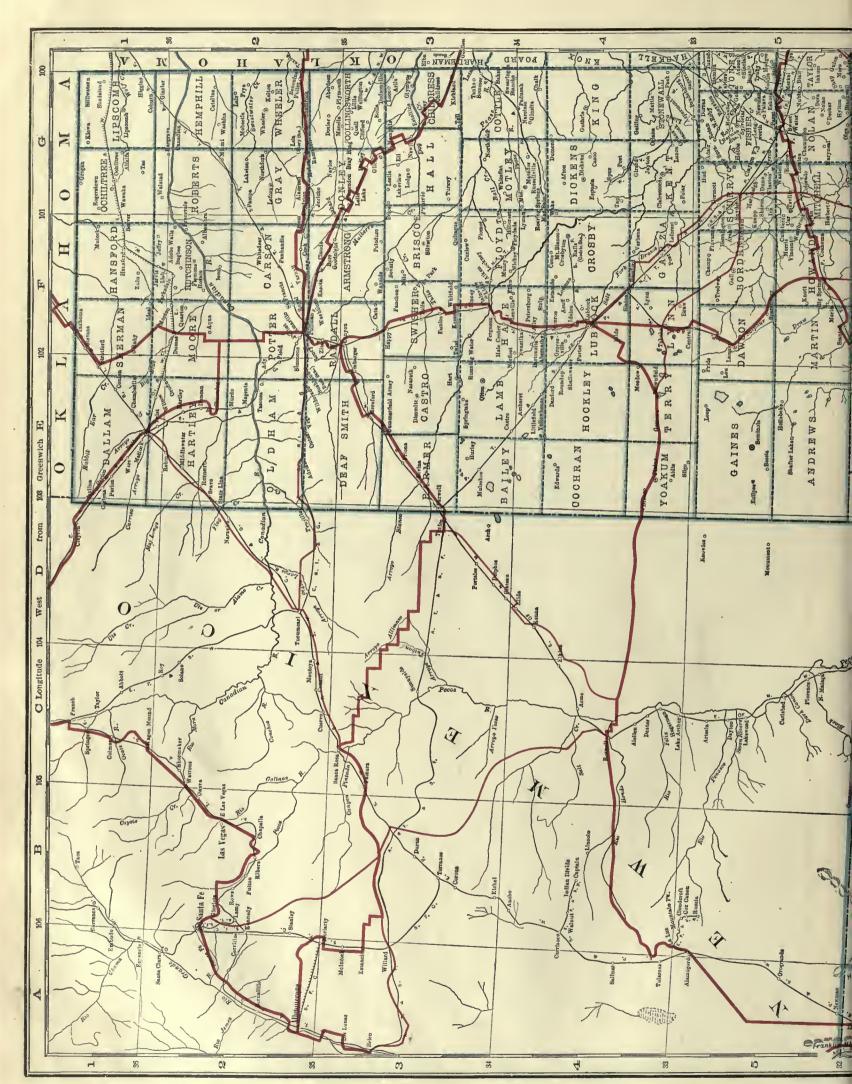


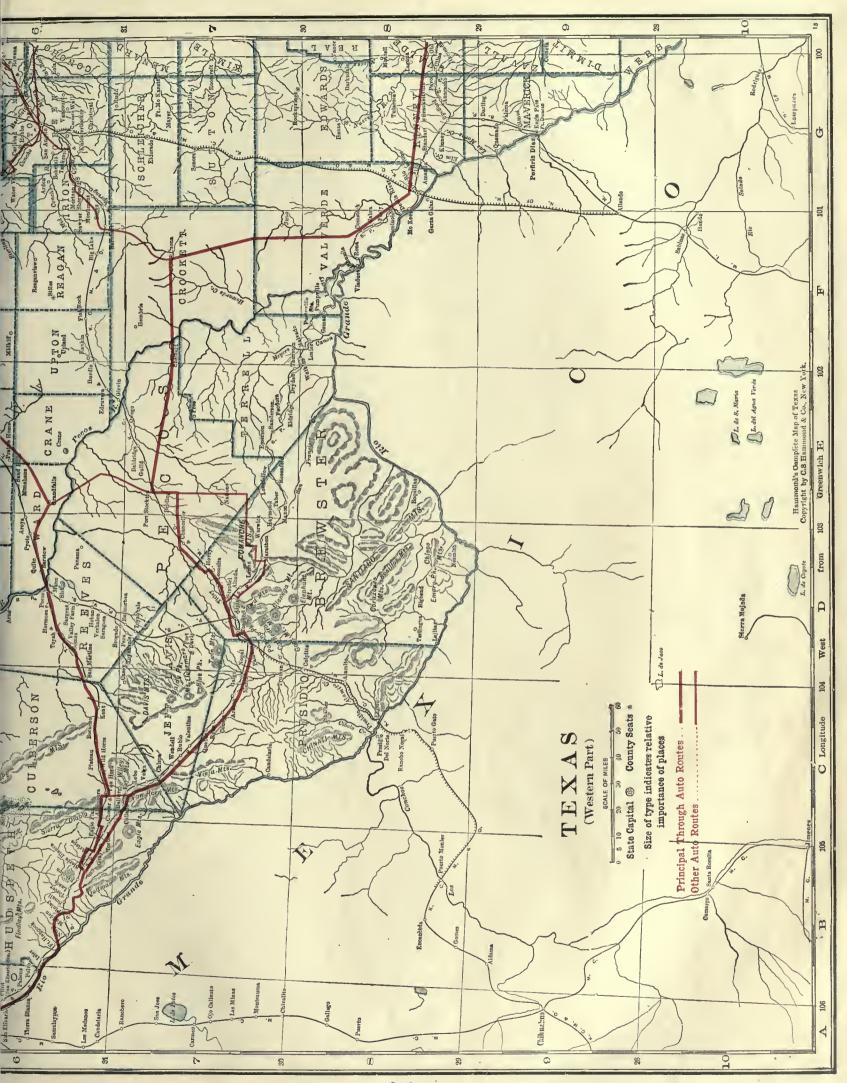


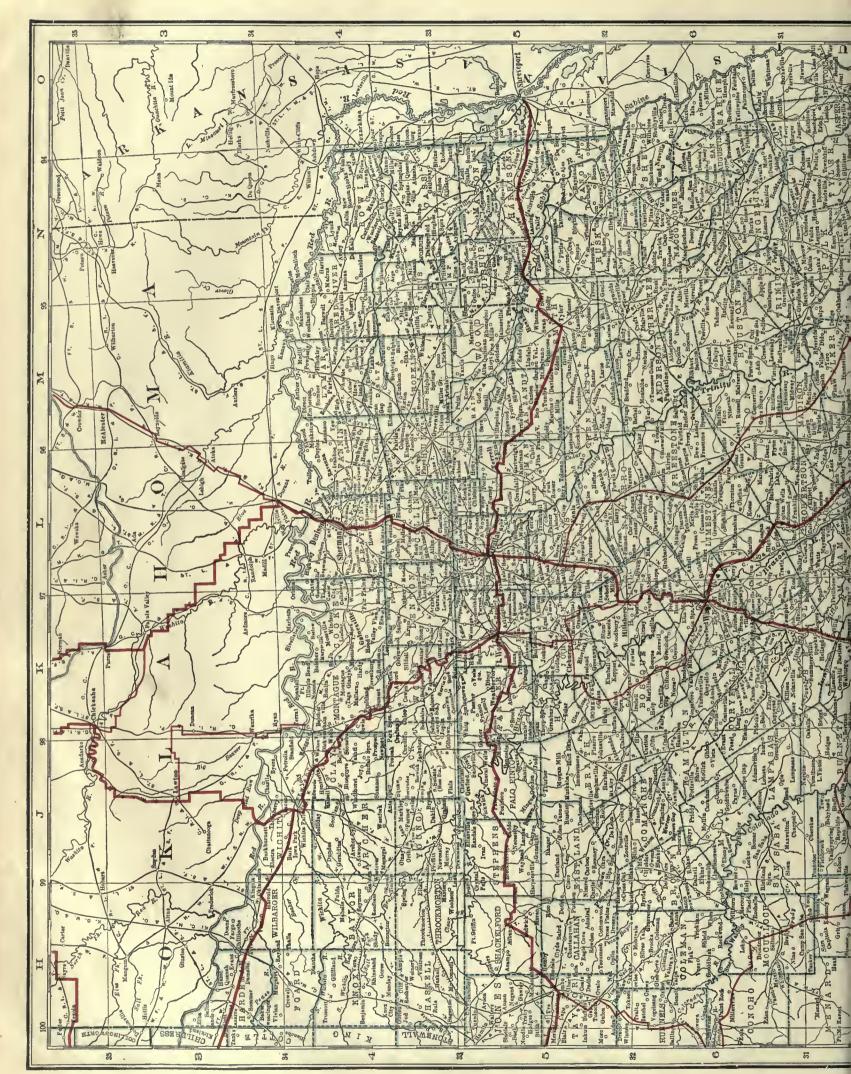




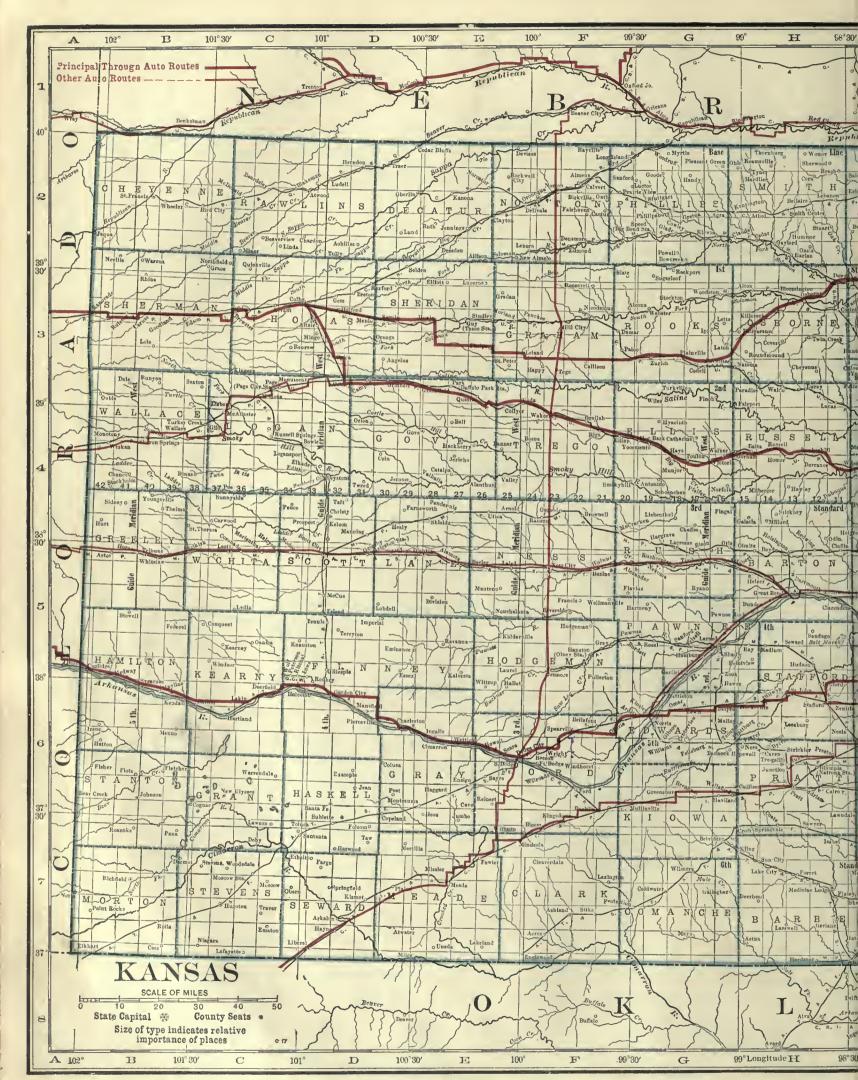


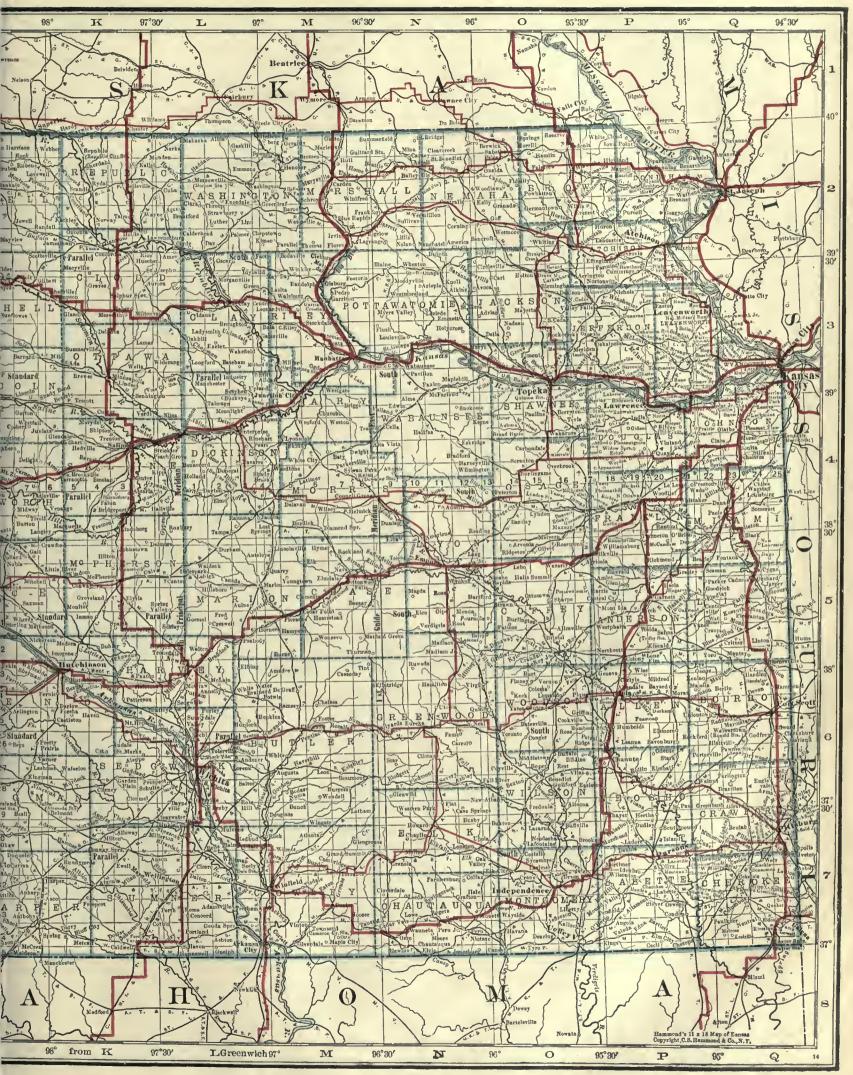


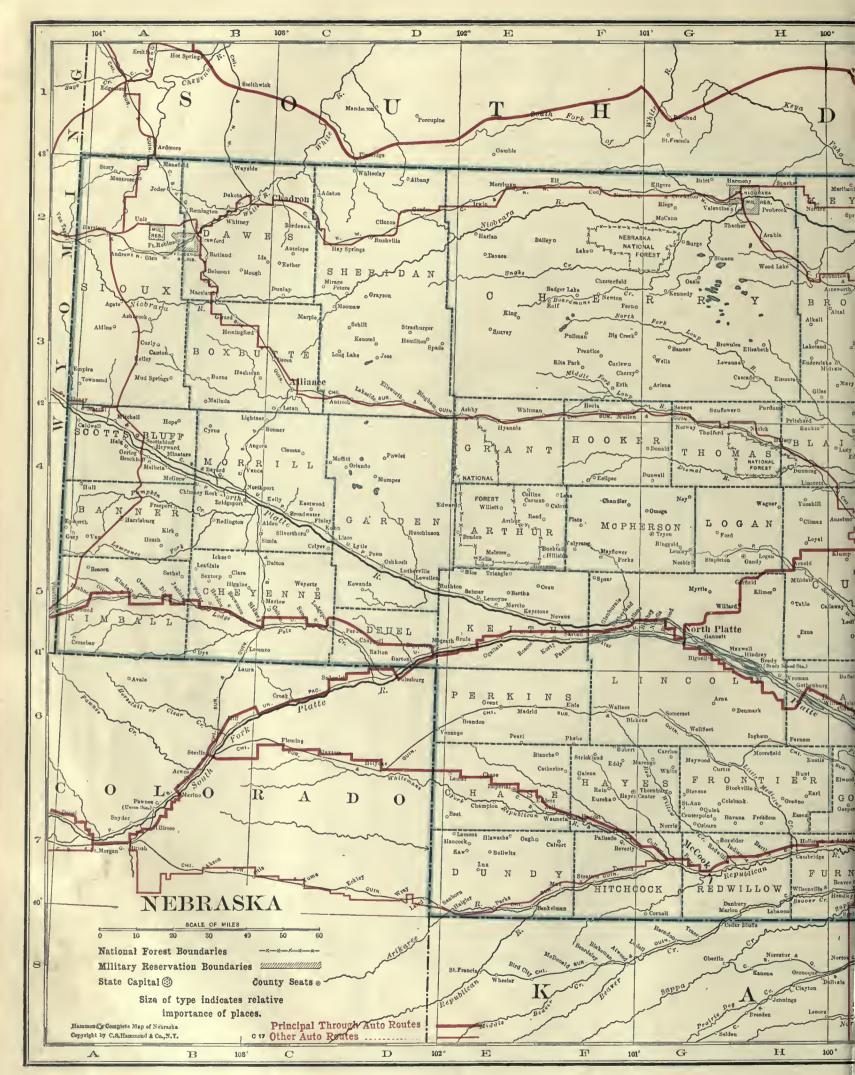


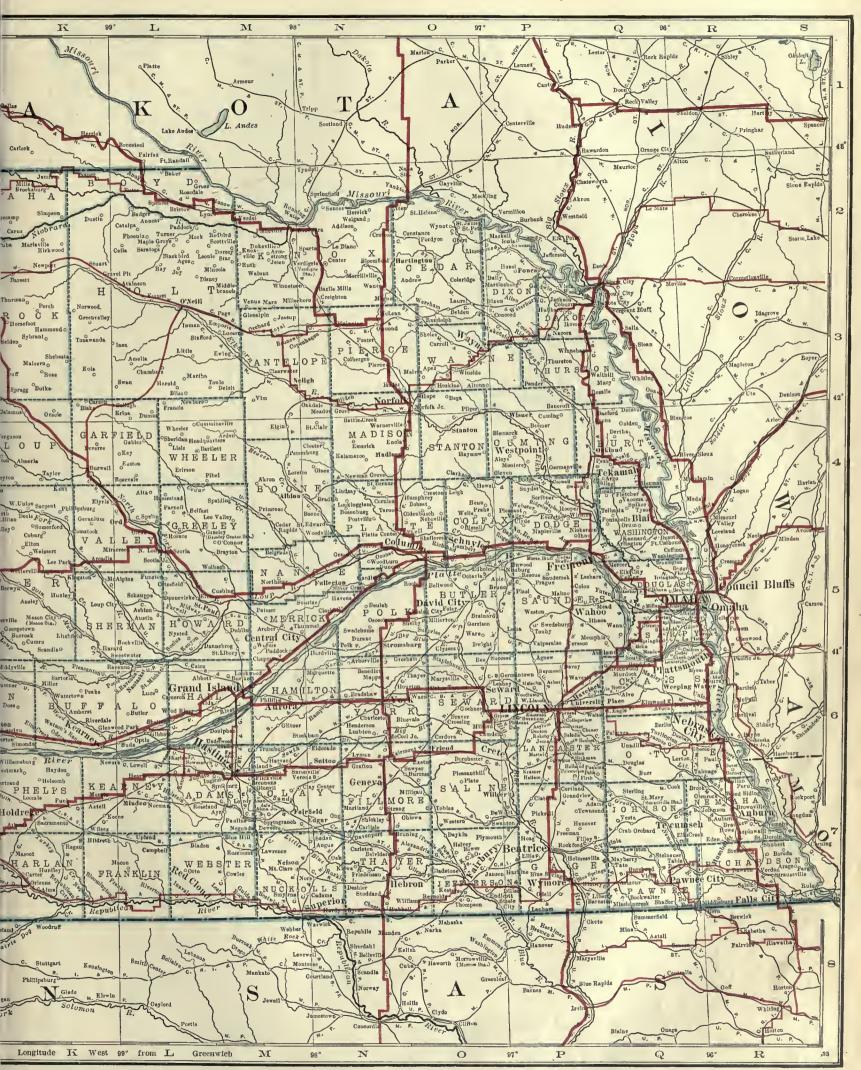


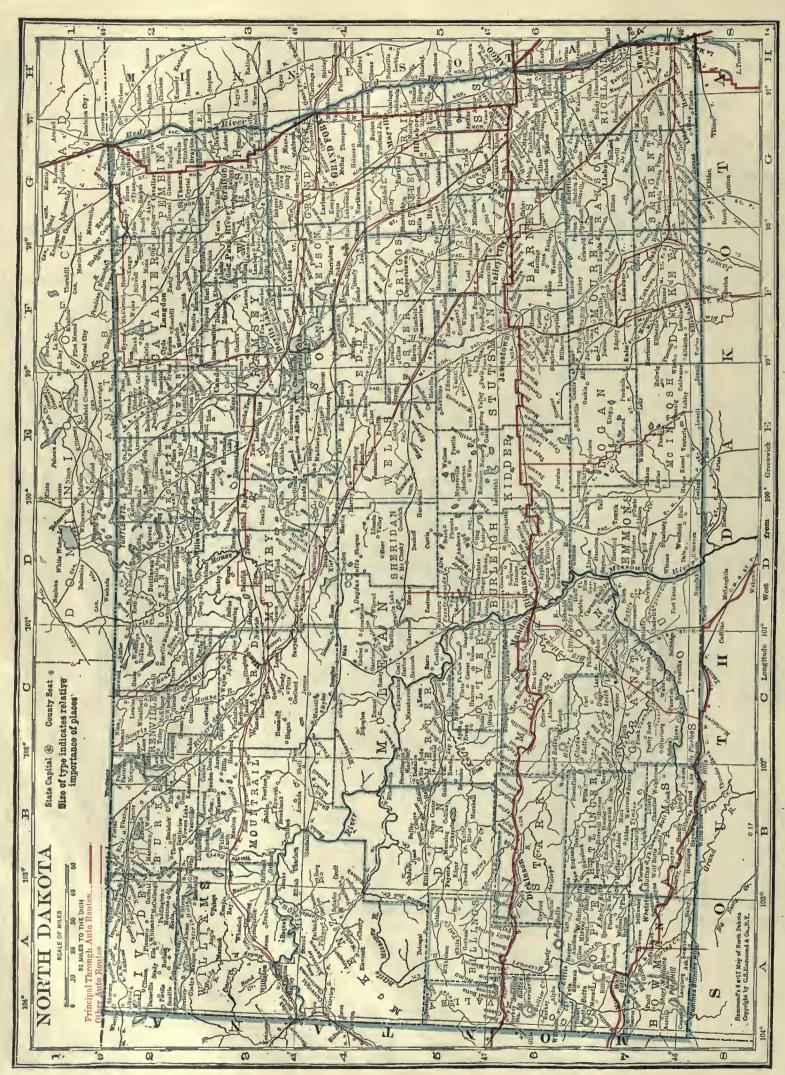


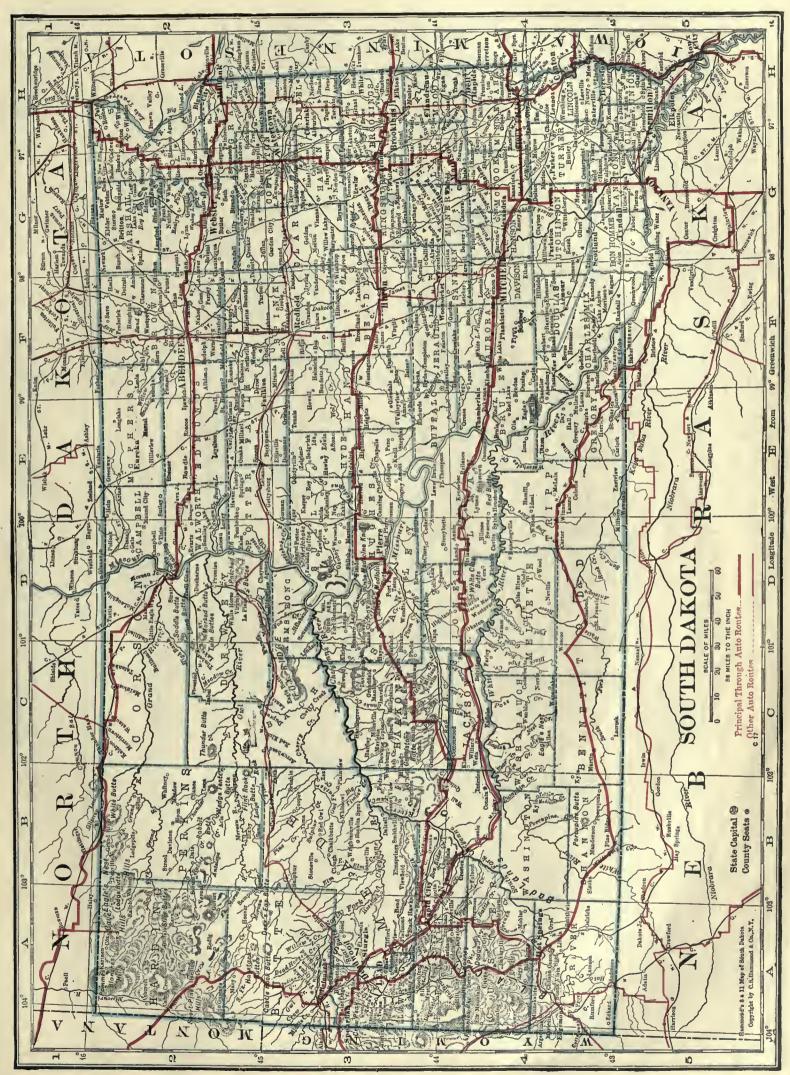


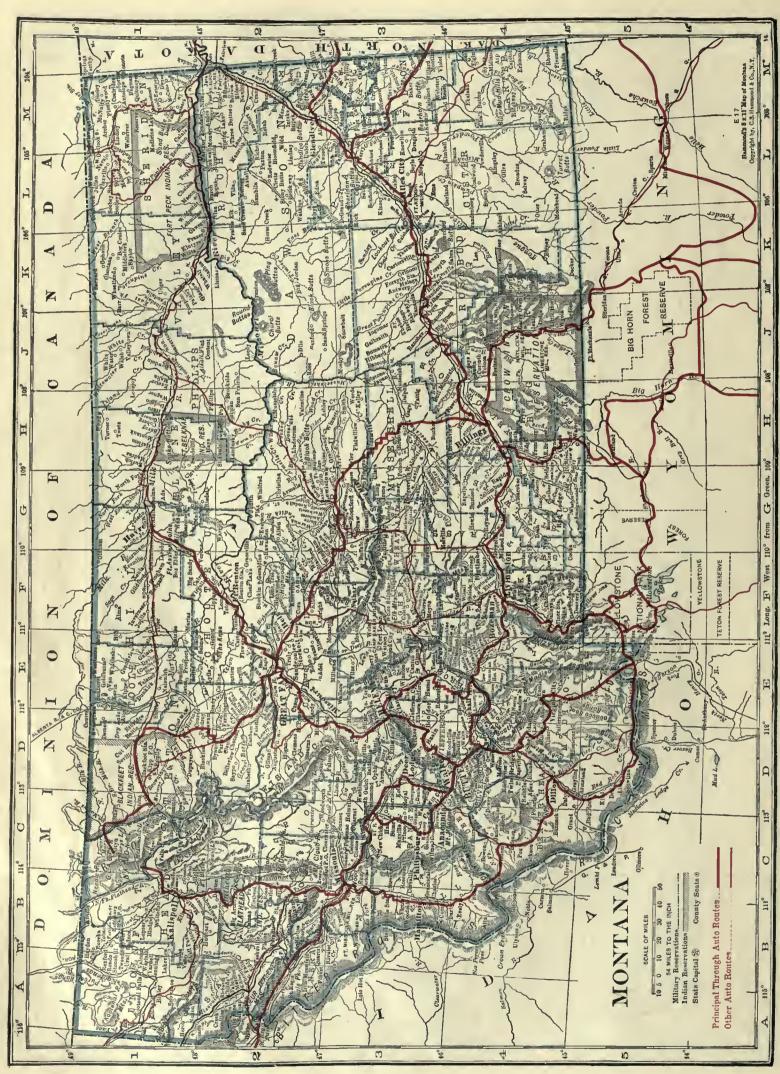


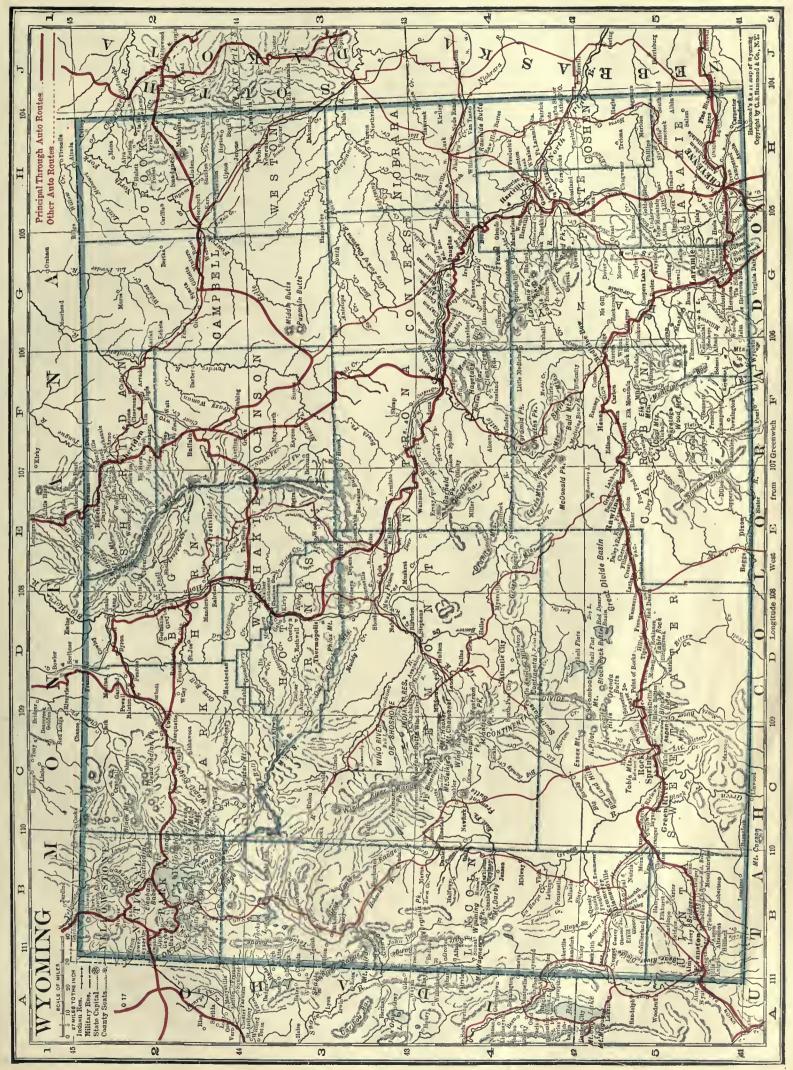


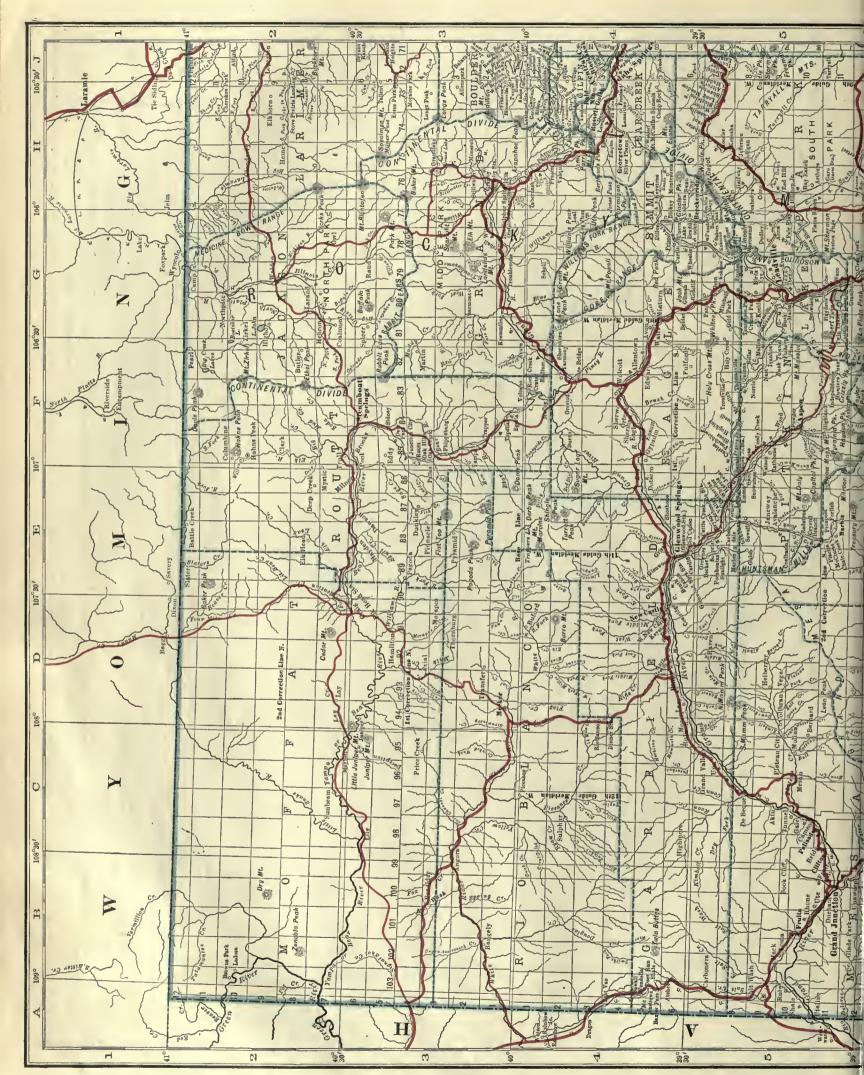


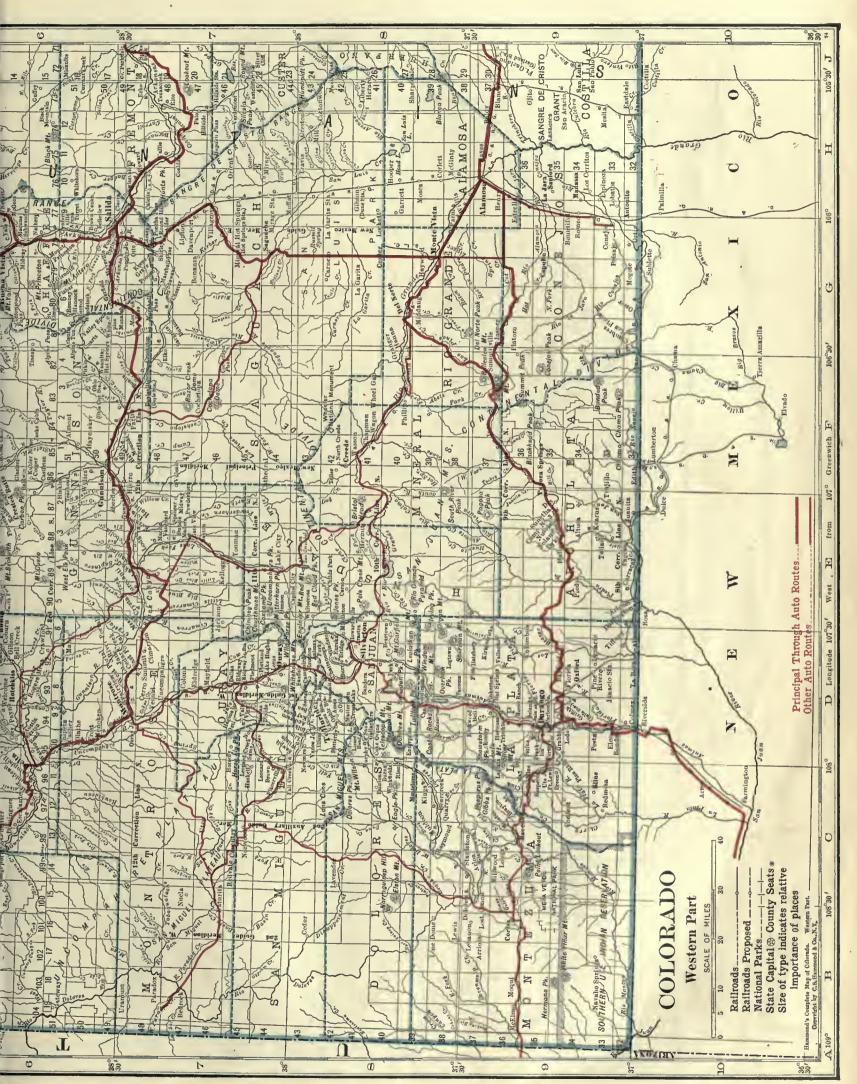


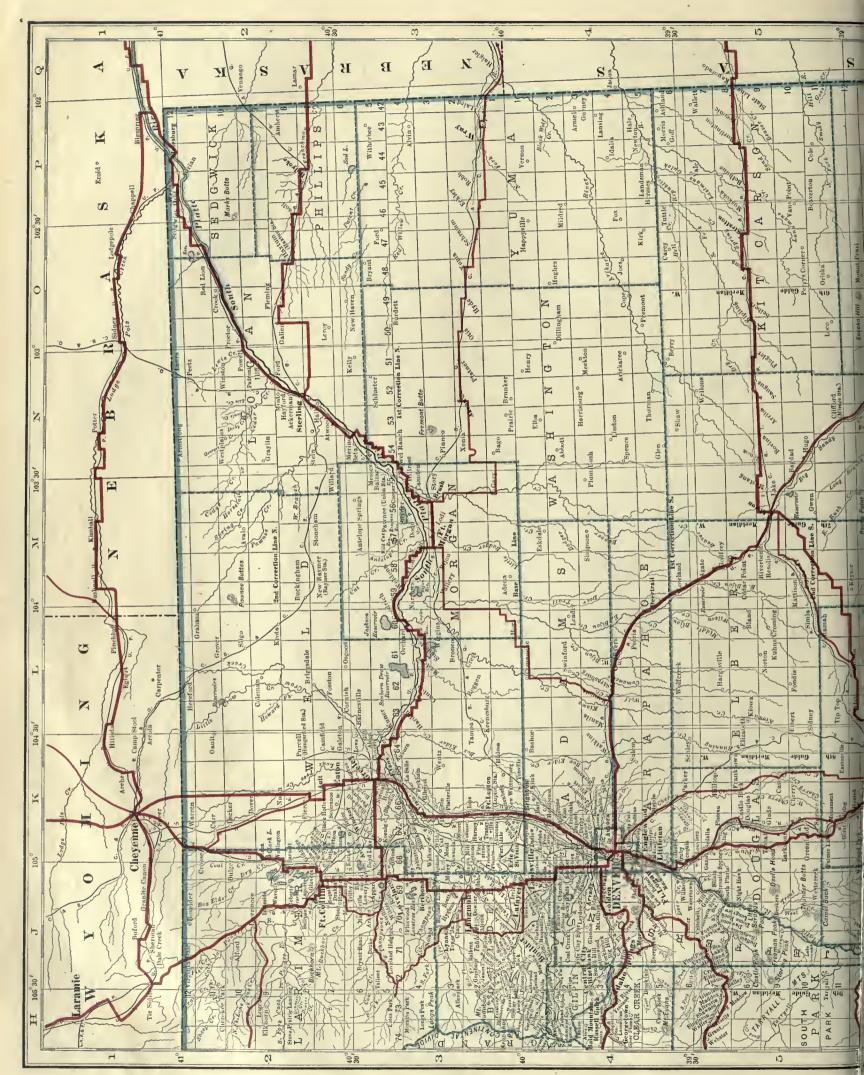


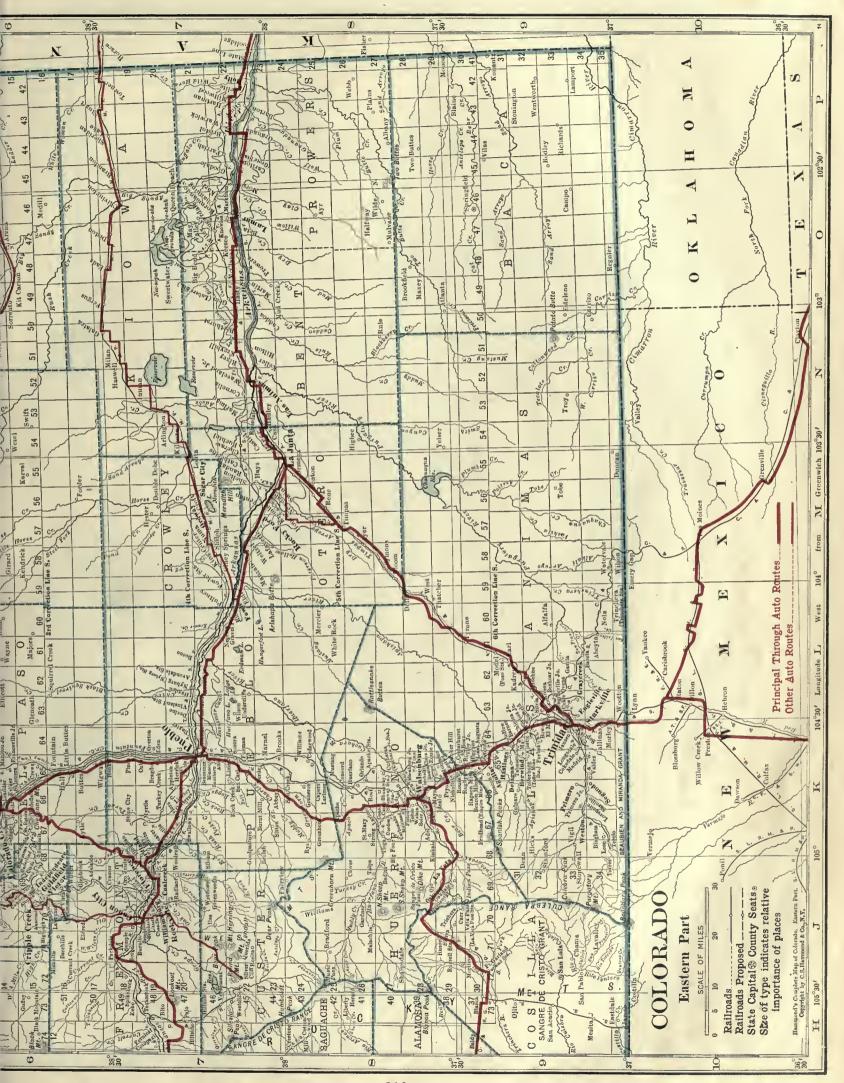


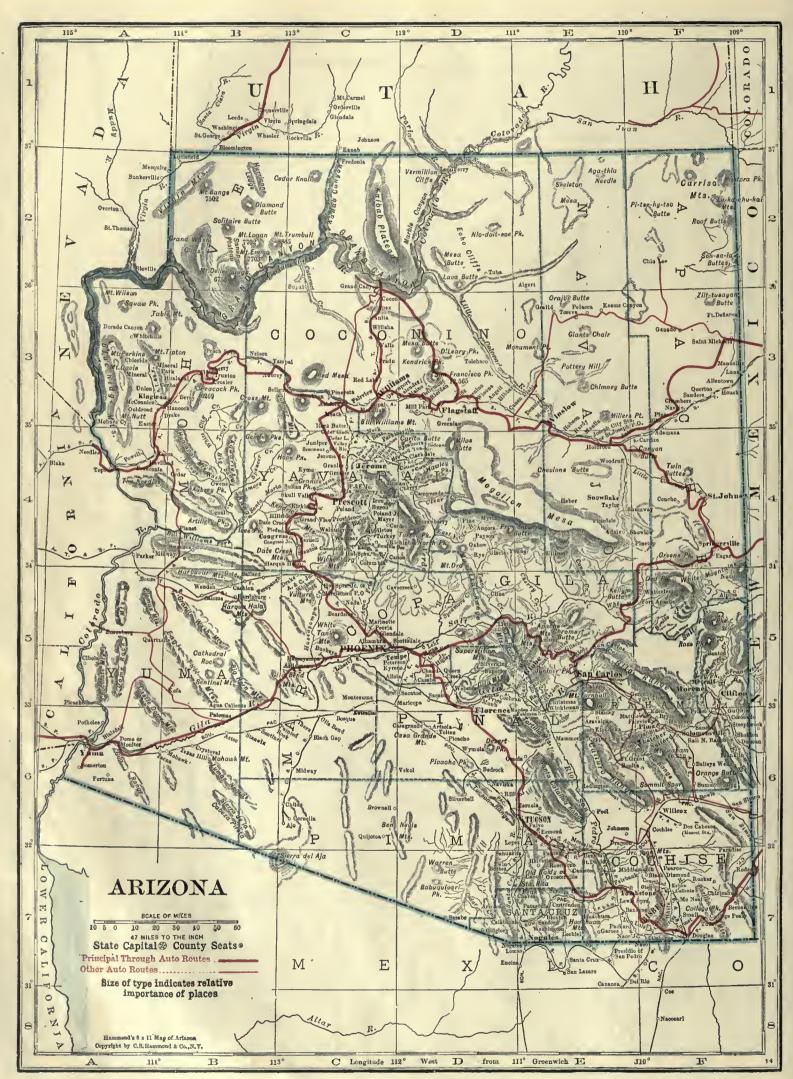




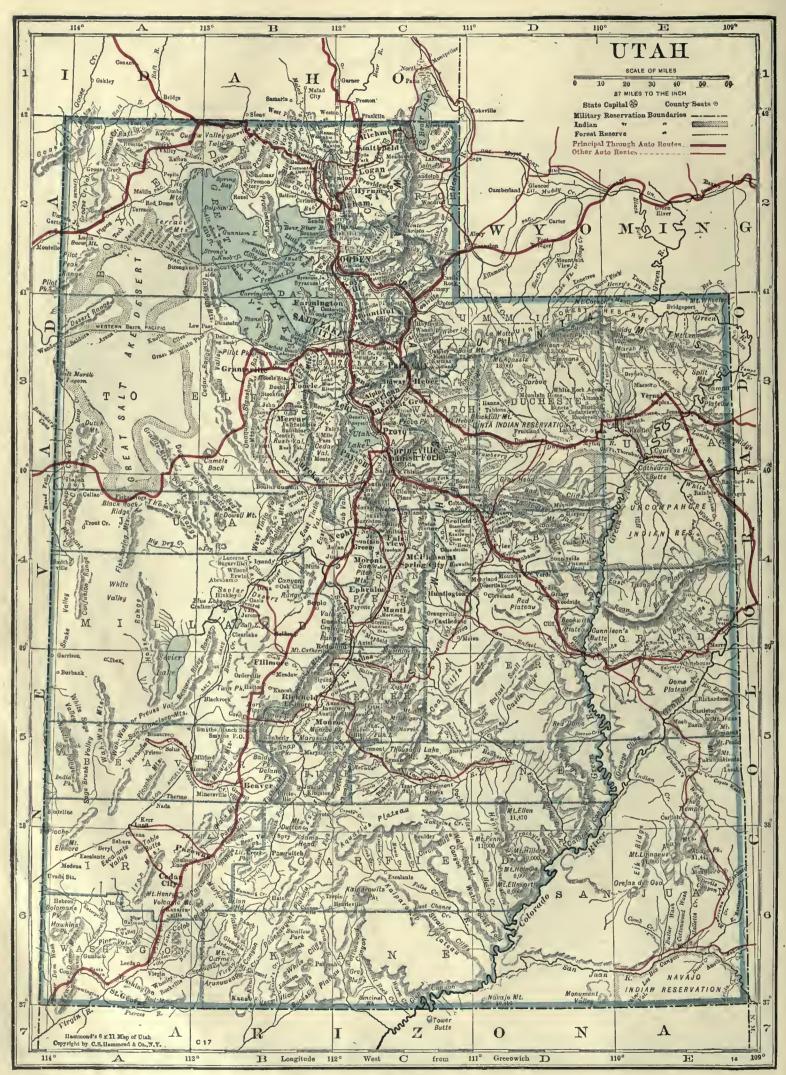


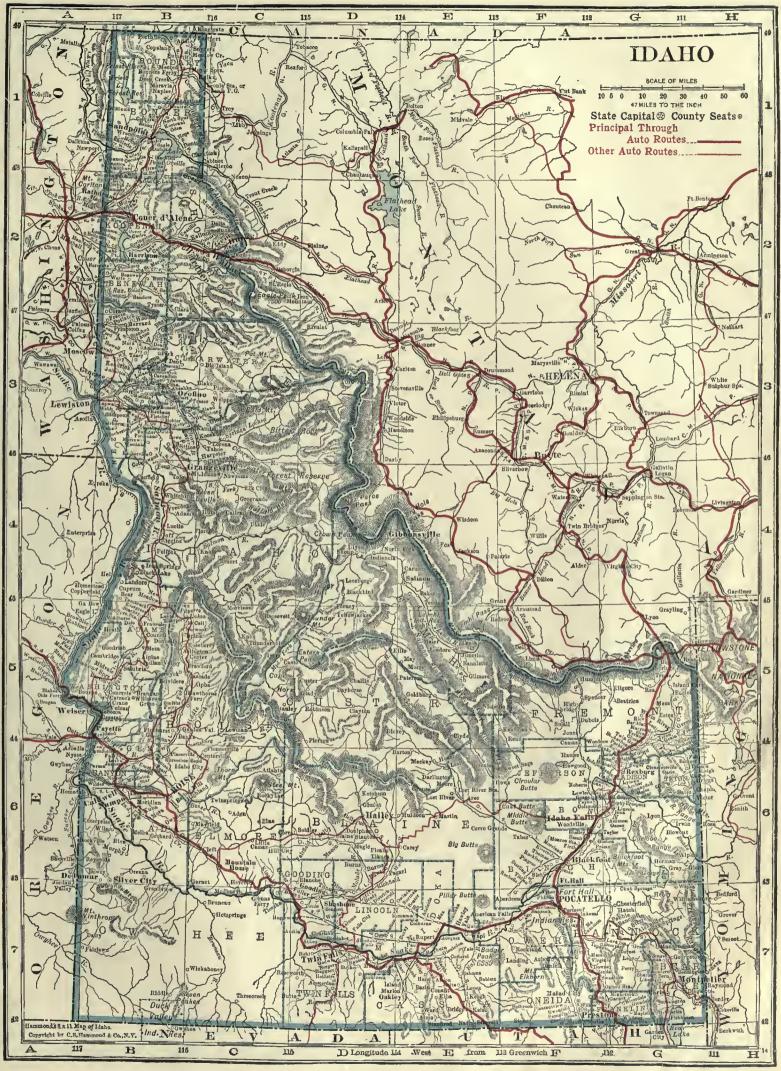


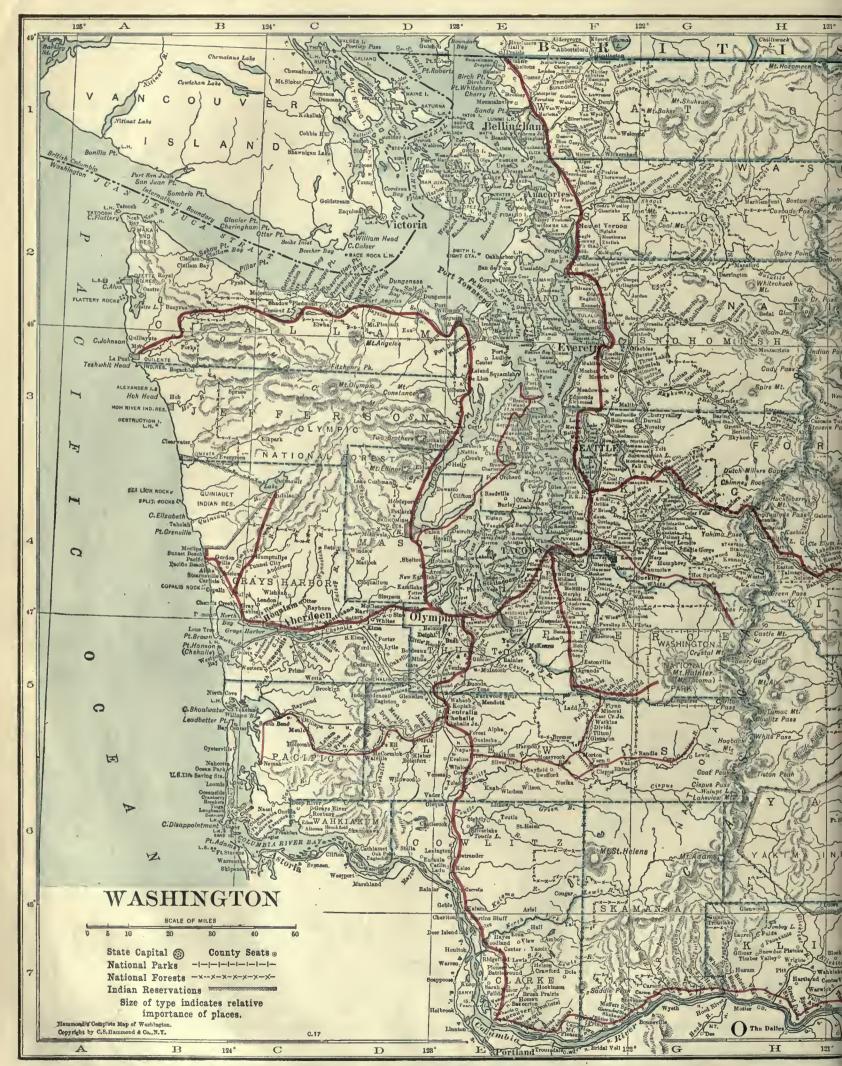




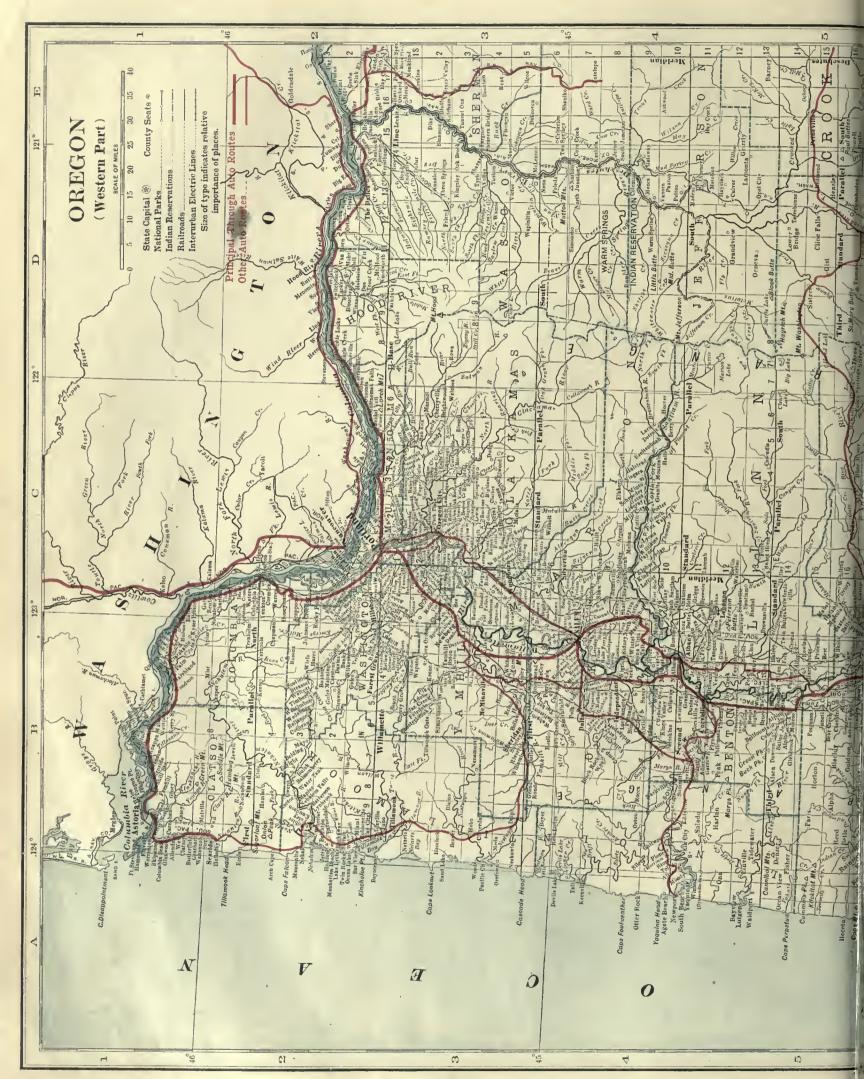


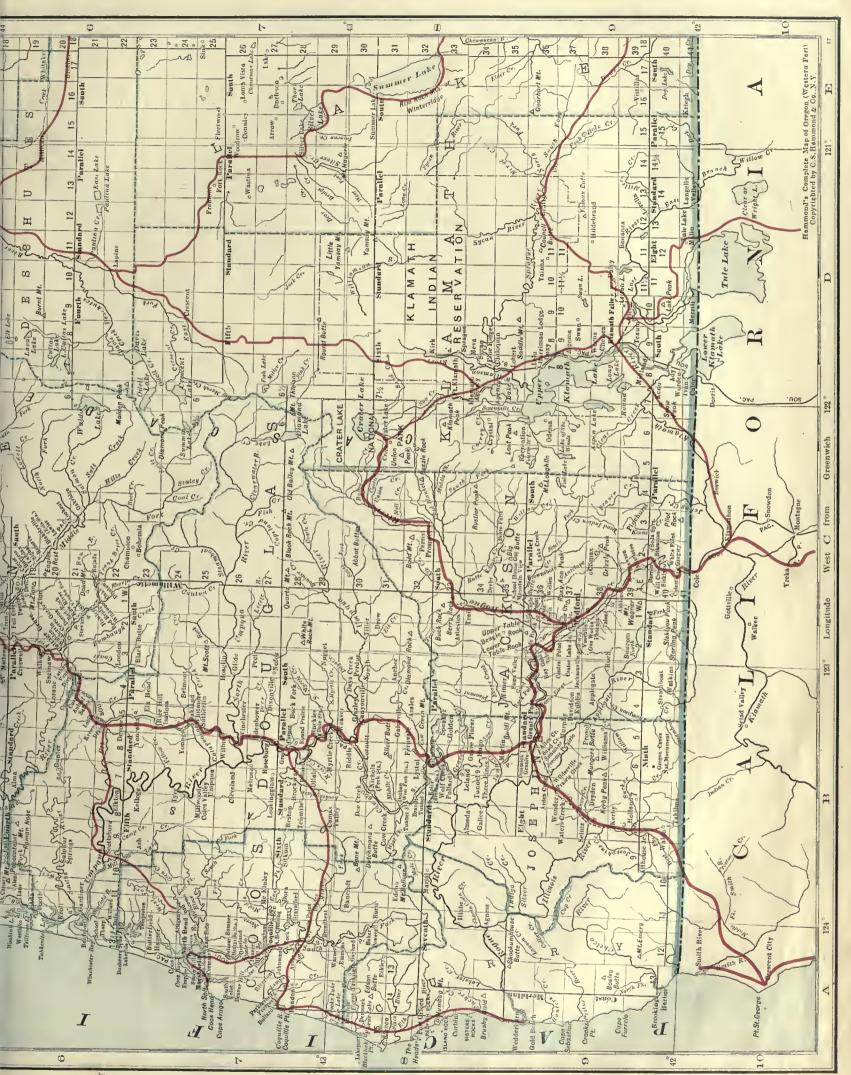


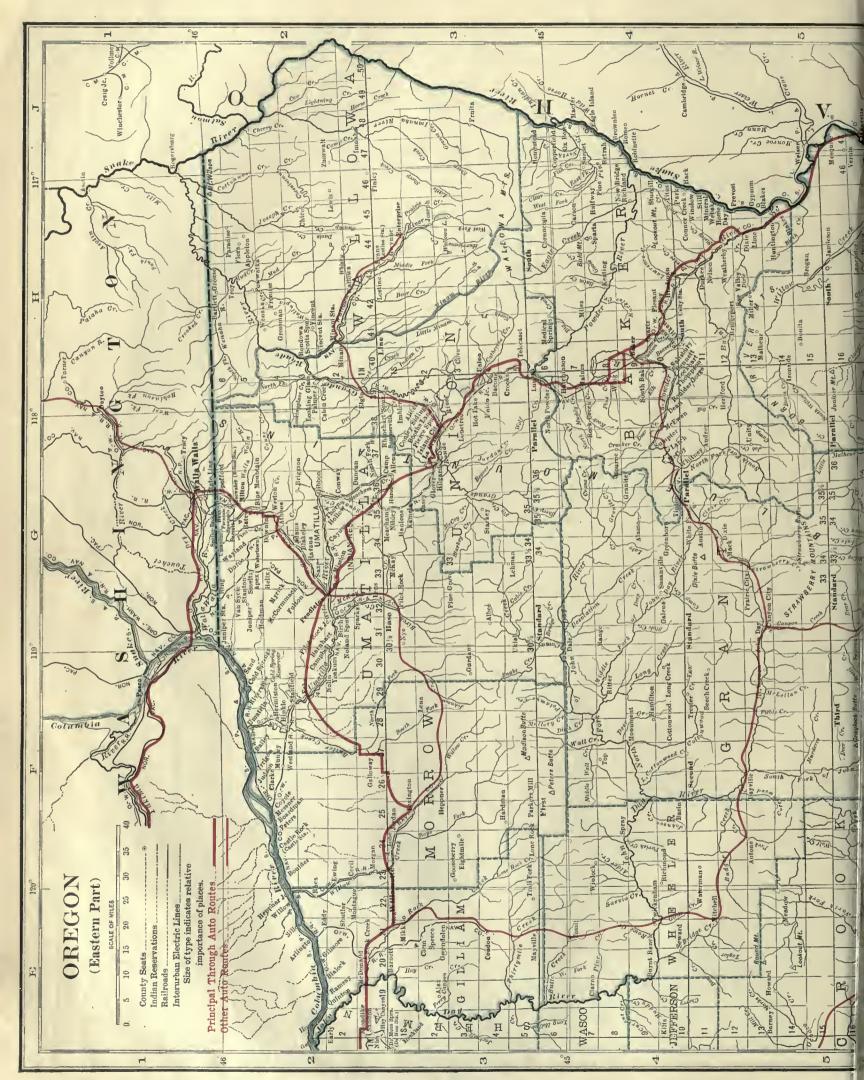


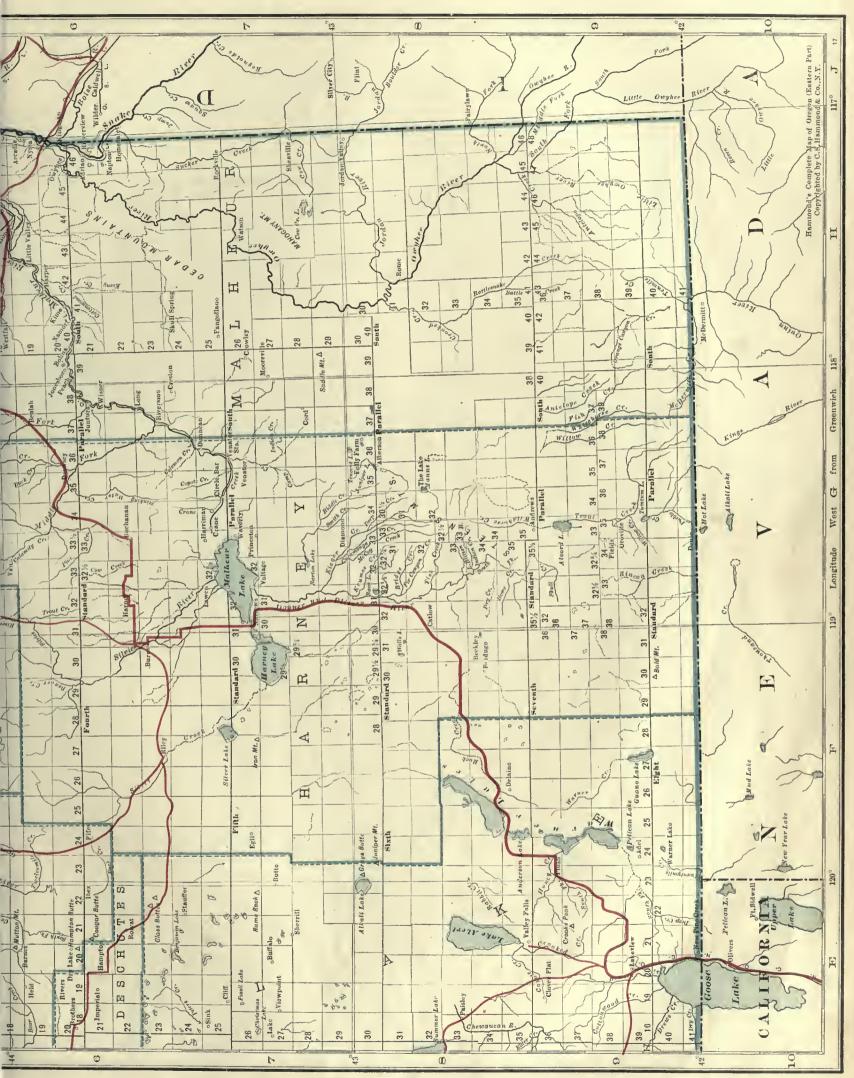


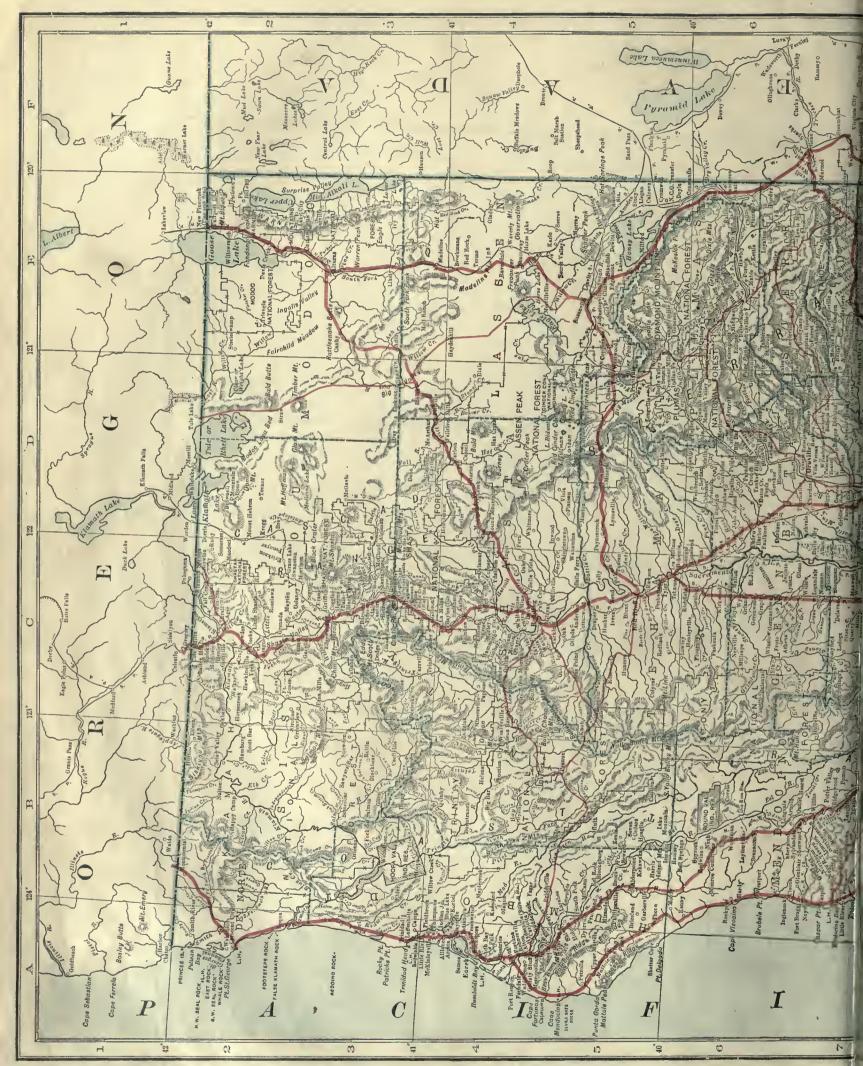




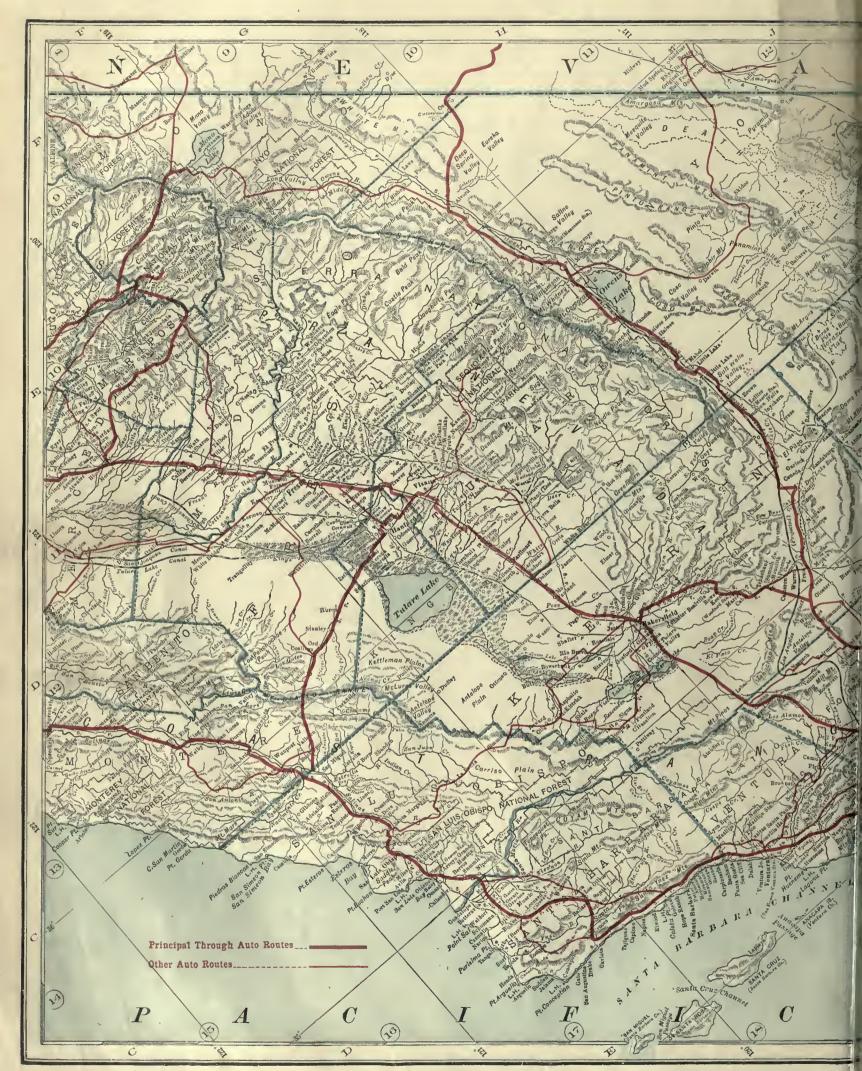


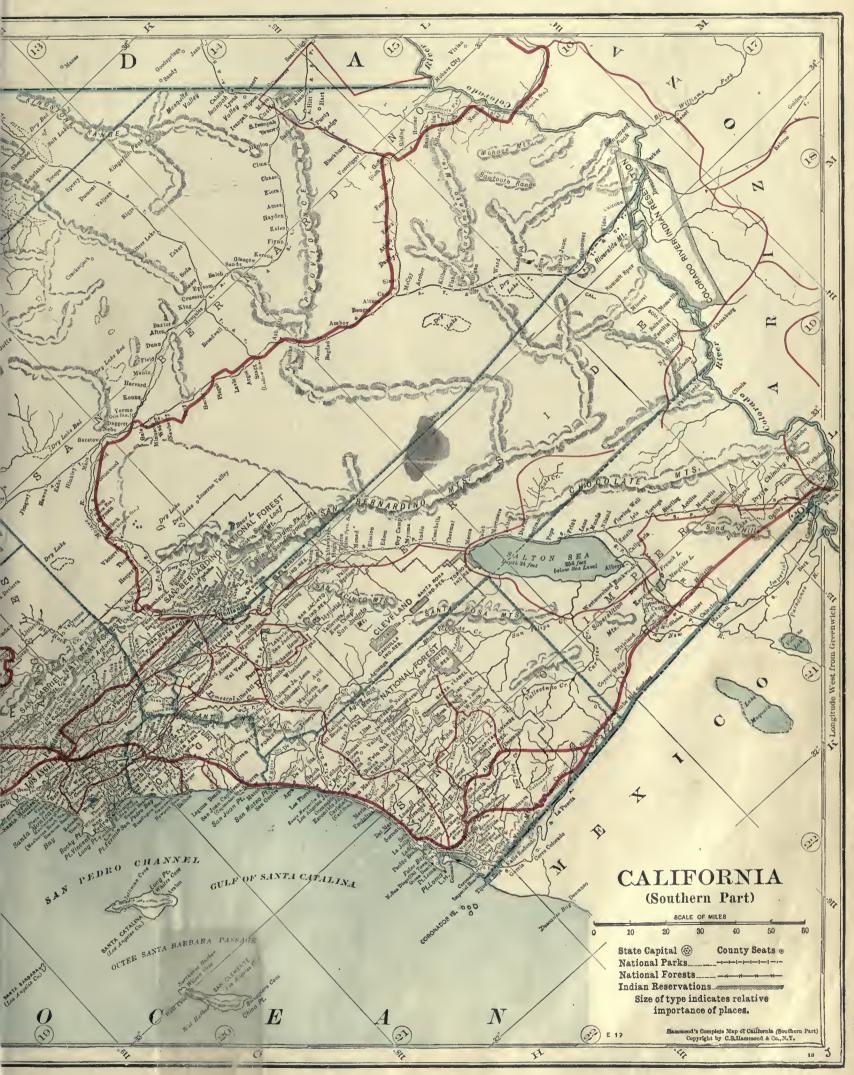




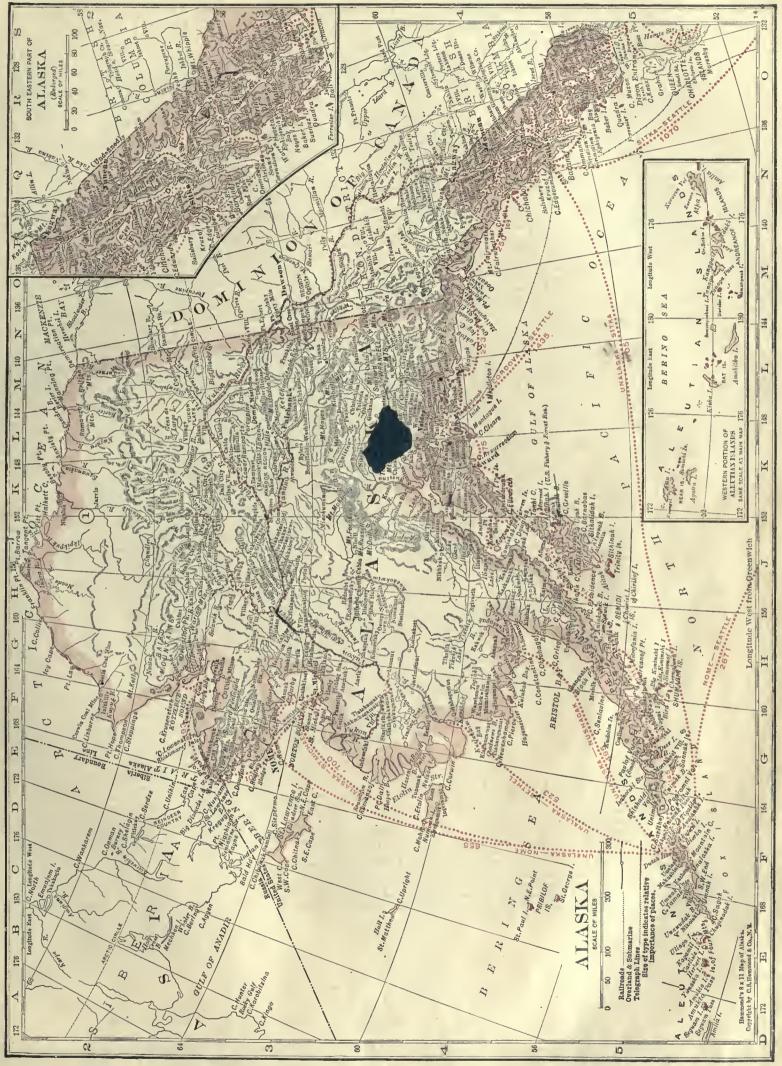


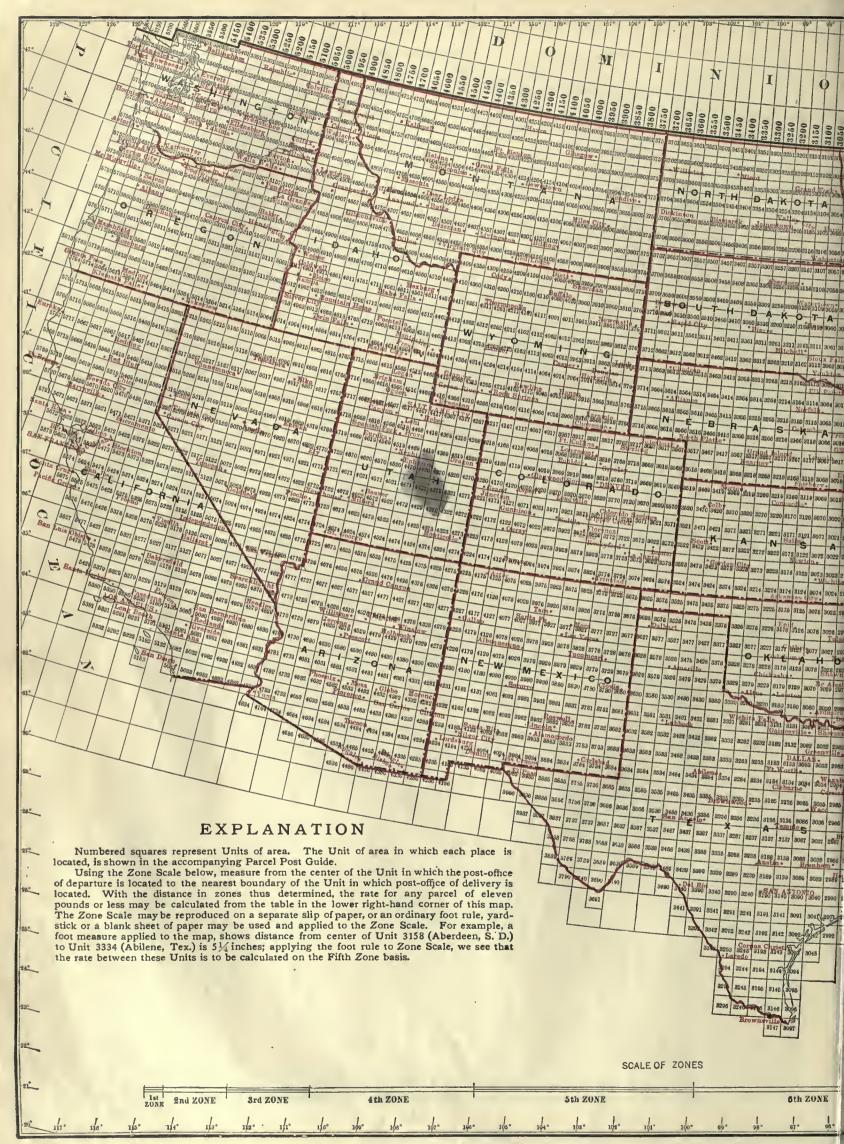


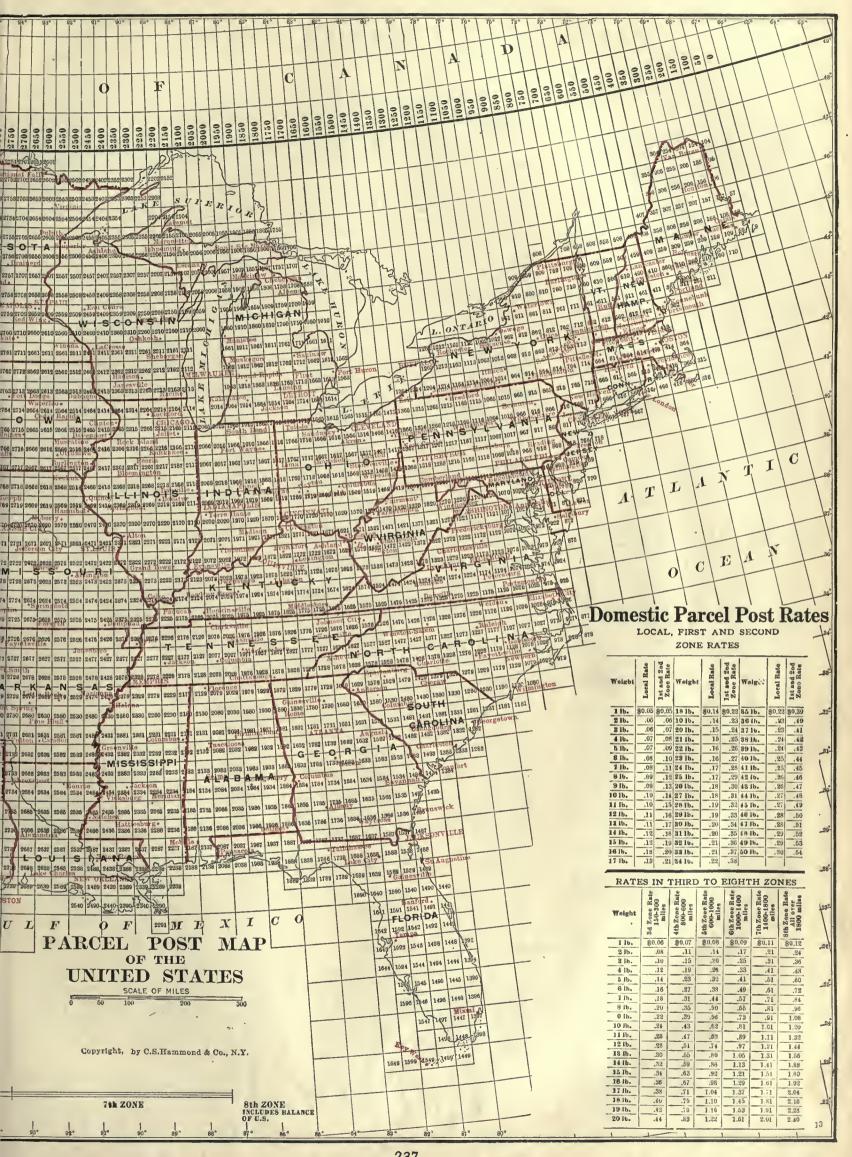












PARCEL POST REGULATIONS

A general parcel post in the United States is provided for in section 8 of the act of August 24, 1912; some of the regulations have been amended from time to time by the Postmaster General.

Section 1. That hereafter fourth class mail matter shall embrace all other matter, including farm and factory products, not now embraced by law in either the first, second, or third class, not exceeding eleven pounds in weight, nor greater in size than seventy-two inches in length and girth combined, nor in form or kind likely to injure the person of any postal employee or damage the mail equipment or other mail matter and not of a character perishable within a period reasonably required for transportation and delivery.

a character perisanne within a period reasonary required for transportation and delivery.

Sec. 2. That for the purposes of this section the United States and its several Territories and possessions, excepting the Philippioe Islands, shall be divided into units of area thirty minutes square, identical with a quarter of the area formed by the intersecting parallels of latitude and meridians of longitude, represented on appropriate postal maps or plans, and such units of area shall be the basis of eight postal zones, as follows:

(a) The first zone shall include all territory within such quadrangle, in conjunction with every contiguous quadrangle, representing an area having a mean radial distance of approximately fifty miles from the center of any given unit of area.

(b) The second zone shall include all units of area outside the first zone lying in whole or in part within a radius of approximately one hundred and fifty miles from the center of a given unit of area.

(c) The third zone shall include all units of area outside the second zone lying in whole or in part within a radius of approximately three hundred miles from the center of a given unit of area.

(d) The fourth zone shall include all units of area outside then third zone lying in whole or in part within a radius of approximately six hundred miles from the center of a given unit of area.

(e) The fifth zone shall include all units of area outside the nirth zone fying in whole or in part within a radius of approxiately one thousand miles from the center of a given unit

(f) The sixth zone shall include all units of area outside the fifth zone lying in whole or in part within a radius of approximately one thousand four hundred miles from the center of a given unit of area.

(g) The seventh zone shall include all units of area outside the sixth zone lying in whole or in pert within a radius of approximately one thousand eight hundred miles from the center of a given unit of area.

(h) The eighth zone shall include all units of area outside the

seventh zone.

Sec. 3. That the rate of postage on fourth class matter weighing not more than four punces shaff he one cent for each ounce or fraction of an ounce; and on such matter in excess of four ounces in weight the rate shall be by the pound, as hereinatter provided (see sec. 7), the postage in all cases to be prepaid by postage stamps affixed.

2. That except as provided in the pert preceding paragraph.

2. That except as provided in the next preceding paragraph postage on matter of the fourth class shall be prepaid at the following rates:

following rates:

(a) On all matter mailed at the post office from which a rural route starts, for delivery on such route, or mailed at any point on such route for delivery at my other point thereon, or at the office from which the route starts, or on any rural route starting therefrom, and on all matter mailed at a city carrier office, or at any point within its delivery limits, for delivery by carriers from that office, or at any office for local delivery, five cents for the first pound or fraction of a pound and one cent for each additional two pounds or fraction thereof.

(b) For delivery within the first zone, except as provided in the next preceding a rangraph, five cents for the first pound or fraction of a pound.

(c) For delivery within the second zone, five cents for the first pound or fraction of pound.

fraction of a pound.

(c) For delivery within the second zone, five cents for the first pound or fraction of a pound and one cent for each additional pound or fraction of a pound.

(d) For delivery within the third zone, seven cents for the first pound or fraction of a pound and five cents for each additional pound or fraction of a pound.

(c) For delivery within the fourth zone, eight cents for the first pound or fraction of a pound and six cents for each additional pound or fraction of a pound.

(f) For delivery within the fifth zone, uine cents for the first pound or fraction of a pound and seven cents for each additional pound or fraction of a pound.

(g) For delivery within the sixth zone, ten cents for the first pound or fraction of a pound and nine cents for each additional pound or fraction of a pound.

ound or traction of a pound.

(h) For delivery within the seventh zone, eleven cents for the first pound or fraction of a pound and ten centa for each additional pound or fraction of a pound.

(i) For delivery within the eighth zone and between the Philippine Islands and any portion of the United States, including the District of Columbia and the several Territories and possessions, twelve cents for the first pound or fraction of a pound.

SEC. 5. The Postmaster General shall make provision by regulation for the iodemnification of shippers, for shipment injured or lost, by insurance or otherwise, and, when desired, for the collection on delivery of the postage and price of the article shipped, fixing such charges as may be necessary to pay the cost of such additional services.

SEC. 6. That this act shall not in any way affect the postage rate on seeds, cuttings, bulbs, roots, scions, and plants as fixed by section 482 of the Postal Laws and Regulations (edition of 1902). (See sec. 7, par. 4.)

RATES OF POSTAGE

SEC. 7. Parcels weighing four ounces or less are mailable at the rate of one cent for each ounce or fraction of an ounce, regardless of distance. Parcels weighing more than four ounces are mailable at the pound rates shown in the table, above a fraction of a pound being considered a full pound.

are maliable at the pound rates shown in the table, above a fraction of a pound being considered a full pound.

2. The parcel post rate between any point in the United States and any point in the Hawaiian Islands, the United States Postal Agency at Shanghai, and any point in Alaska, and between any two points in Alaska, except for parcels weighing four ounces or less, on which the rate is one cent for each ounce or fraction thereof, shall be twelve cents for the first pound and twelve cents for each additional pound or fraction thereof. These rates also apply to parcels mailed in the United States for delivery in the Canal Zone, and to parcels between the Philippine Islands and any portion of the United States, including the District of Columbia and the several Territories and possessions. (See sec. 3, par. 2 (i).)

3. The eighth zone rate of postage, except on parcels weighing four ounces or less, on which the rate shall be as prescribed in section 3, shall apply to all parcels of fourth class matter mailed in the United States for delivery in Canada, Mexico, Cuba, and the Republic of Panama: Provided (a), That as prescribed by existing special postal conventions with these countries such parcels shall not exceed two kilograms (4 lbs., 6 ozs., in weight, and (b) that nothing in this section shall affect the dispatch of parcel post packages to Mexico and the Republic of Panama up to eleven pounds (5 kilograms) in weight under the existing parcel post conventions with these countries.

3½. The eighth zone rate of postage shall apply to parcels of fourth-class maif, exceeding four ounces in weight, exchanged between the United States, or any of its possessions, and United States naval vessels stationed in a port of the United States, or any of its possessions, the rates applicable to or from the post-office at such port shall be charged.

4. Seeds, cuttings, bulbs, roots, scions, and plants are matter of the fourth class, notwithstanding that a special rate of postage (one cent for each two ounces or fraction thereof regardless of distance) applies thereto. The limit of weight is increased to eleven pounds by the parcel post faw (see sec. 1), but no other change is made.

Cut flowers, dried plants, and botanical specimens not susceptible of propagation are transmissible at parcel post rates.

6. Samples of wheat or other grain in its natural condition, potatoes, beans, peas, chestnuts, acorns, etc., when intended for planting must be prepaid at the special rate of postage prescribed in paragraph 4, but when intended to be used as food the parcef post rates apply.

post rates apply.

SEC. 9. When parcels are presented for mailing, the senders shall be required to affix stamps before the matter is accepted. When a parcel is insufficiently prepaid, and the sender can not be located, the matter shall be treated as unpaid or insufficiently prepaid, marked "Held for postage," and the addressee nothined immediately on Form 1543 (except as provided in sec. 38). Such matter shall be held not longer than two weeks, unless the office of address is so remote that the postage could not be received from the addressee within that time. If the required postage is received, stamps of the value hereol shall be affixed to the matter in such manner as to cover a part of the words "Held for postage" and the parcel dispatched.

2. When the sender of any insufficiently prepaid matter pays the postage, after dispatch of notice to the addressee, such matter shall be indorsed "Pustage subsequently paid by sender," the stamps affixed, and the matter dispatched.

3. When the required postage is not received from the

3. When the required postage is not received from the addressee within the time specified, the matter shall be marked "Unclaimed" and sent to the Division of Dead Letters.

SEC. 10. Parcels weighing more than four ounces must be maded at a post office, branch post office, named or lettered station, or such numbered stations as may be designated by the postmaster, or delivered to a rural or other carrier duly authorized to receive such matter. Parcels weighing four ounces or less may be mailed in the same manner as matter of other classes.

2. Parcels collected on star routes must be deposited in the next post office at which the carrier arrives and postage charged at the rate from that office.

PREPARATION FOR MAILING

SEC. 11. Parcels must be prepared for mailing in such manner

IMPORTANT AMENDMENTS TO PARCEL POST REGULATIONS

Subparagraphs (d), (e), (f) and (g), Section 3, are amended to read as follows, effective January 1, 1914:

(d) For delivery within the third zone, (six) cents for the first pound or fraction of a pound and (two) cents for each additional pound or fraction of a pound.

(e) For delivery within the fourth zone, (seven) cents for the first pound or fraction of a pound and (four) cents for each additional pound or fraction of a pound.

(f) For delivery within the litth zone, (eight) cents for the first pound or fraction of a pound and (six) cents for each additional pound or fraction of a pound.

(g) For delivery within the sixth zone, (nine) cents for the first pound or fraction of a pound and (eight) cents for each additional pound or fraction of a pound.

On and after March 16, 1914, the rate of postage on percels of books weighing 8 ounces or less shall be 1 cent for each 2 ounces or fraction therenf. and on those

weighing more than 8 ounces the pound rates shown in the table appearing in map on page 133 shall apply.

The rate of postage on gold cnin, gold bulfion, and gold dust offered for mailing between any two points in Alaska, or between any point in Alaska and any point in the United States or its possessions, ahall be 2 cents an ounce or fraction thereof, regardless of distance. Such gold coin, gold bullion, or gold dust shall be inclosed in sealed packages not exceeding 11 pounds in weight and sent by registered mail. (Effective January 1,1914.)

Section 7 is amended to read as follows effective

and sent by registered mail. (Effective January 1, 1914.)
Section 7 is amended to read as follows, effective
January 1, 1914:
Parcels weighing four ounces or less are mailable at
the rate of one cent for each ounce or fraction of an
ounce, regardless of distance. Parcels weighing more
than four ounces are mailable at the pound rates shown
in the following table, a fraction of a pound being considered a full pound;

that the contents can be easily examined. (See secs. 19 to 37_i inclusive.)

2. A parcel must not be accepted for mailing unless it bears the name and address of the sender preceded by the word From."

"From."

3. In addition to the name and address of the sender, which is required, it is permissible to write or print on the covering of a parcel, or on a tag or label attached to it, the occupation of the sender, and to indicate in a small space by means of marks, letters, numbers, names or other brief description, the character of the parcel, but ample space must he left on the address side for the full address in legible characters and for the necessary postage stamps. Inscriptions such as "Merry Christmas," "Please do not open until Christmas," "Happy New Year," "With best wishes," and the like, may be placed on the covering of the parcel in such manner as not to interfere with the address.

Stc. 12 Postmasters must examine parcels when presented.

SEC. 12. Postmasters must examine parcels when presented for mailing to ascertain that the postage is fully prepaid.

2. When any parcel offered for mailing is sealed or otherwise closed against inspection, or contains or bears writing not permissible, it is subject to postage at the first class rate and shall be treated as first class matter (except as provided in secs. 26 and 32). If such a parcel exceeds four pounds in weight it is unmailable.

3. A parcel containing two or more classes of mail matter is chargeable with postage at the rate applicable to the highest class of matter inclosed. A parcel composed of two articles, one being matter of the third class and the other matter of the fourth class, is chargeable with postage at the fourth class rate when such postage is equal to or greater than that which would be chargeable if the third class rate were applicable. However, when the postage on a parcel containing both third and fourth class matter amounts to more at the third class than at the fourth class rate, owing to the graduated zone rates, the parcel must be charged with postage at the third class rate (one cent for each two ounces or fraction of two ounces), and in such case the parcel must not exceed four pounds in weight, unless it is a single book.

LIMIT OF WEIGHT AND SIZE

Sec. 15° Parcels mailed for delivery within the first and second zones must not exceed fifty pounds in weight and parcels mailed beyond the limits of the second zone must not exceed twenty pounds in weight.

2. The law prescribes that a package to be admitted to the parcel post shall not exceed eighty-four inches in combined length and girth. In measuring the length the greatest distance in a straight line between the two ends of the parcel shall be taken, while the girth is the actual measurement by a tape encircling the parcel at its thickest part. The parcel shall be refused for mailing, if even slightly in excess in size or weight.

PACKING OF PARCELS

SEC. 19. Medicines composed wholly or in part of poison or poisons, and anesthetic agents which are not outwardly or of their own force dangerous or injurious to life, health, or property, and not in themselves unmailable (see sec. 16), when packed as prescribed in sections 2t, 22, and 23, and the package bears the name and address of the manufacturer of or dealer in the article mailed, may be transmitted in the domestic mails from the manufacturer thereof or dealer therein to licensed physicians, surgeons, pharmacists, and dentists.

SEC. 20. Admissible articles which, from their form or nature, might damage other mail matter or equipment, or injure the person of any postal employee, may be mailed when packed in accordance with the following conditions:

2. When not liquid or liquidable, they must be placed in a bag, box, or removable envelope, or wrapping, made of paper, cloth, parchment, or similar material, and inclosed in a box or tube of metal or wood, with a sliding, clasp, or screw lid.

3. In case of such articles liable to break, the inner bag, box, envelope, or wrapping must be surrounded by sawdust, excelsior, cotton, or other similar substance.

SEC. 2t. Admissible liquids and nils, in packages not exceeding eleven pounds in weight, will be accepted for mailing when intended for delivery at the office of mailing or on a rural route starting therefrom, when inclosed in a glass or metal container, securely closed and heavily wrapped, provided it is not necessary to transport them over steam or electric railways.

to transport them over steam or electric railways.

SEC. 22. Admissible liquids and oils, pastes, salves, or other articles easily liquefiable, will be accepted for mailing regardless of distance when they conform to the following conditions:

2. When in strong glass bottles holding four ounces or less, the total quantity sent in one parcel shall not exceed twenty-four onnces, liquid measure. Each bottle shall be wrapped in paper or other absorbent substance and placed in a box made of cardboard or other suitable material and then placed in a box and packed in a container made of double-faced corrugated pasteboard of good quality. The corners of the container must fit tightly and be reinforced with tape so as to prevent the escape of any liquid if the contents should be broken, and the whole parcel shall be securely wrapped with strong paper and tied with twine. Single bottles of liquid holding four ounces or less may also be packed as prescribed in the following paragraph:

2. When in class textles helding mars than four owners the

may also be packed as prescribed in the following paragraph:

3. When in glass bottles holding more than four ounces, the total quantity sent in one parcel shall not exceed sixteen ounces, figuid measure. The bottle must be very strong and must he inclosed in a block or tube of metal, wood, papier-mache, or similar material; and there must be provided between the bottle and the block or tube a cushion of cotton, felt or other absorbent. The block or tube must be at least five thirty-seconds of an inch thick in its thinnest part for bottles holding eight ounces or less and at least three-sixteenths of an inch thick for bottles holding more than eight ounces. The block or tube must be rendered water-tight by an application on the inside of paraffine or other suitable substance and must be closed by a screw-top cover with ufficient screw threads to require at least one and one-half complete turns before it will come off. The cover must be provided with a washer so that no liquid will escape if the bottle should he broken.

4. When in a metal container, the weight of the parcel must

4. When in a metal container, the weight of the parcel must not exceed eleven pounds. The container must be hermetically sealed, inclosed in a strong box and securely wrapped.
5. All packages containing liquid must be marked "Fragile."

SEC. 23. Pastes, salves, etc., not easily liquefable, will be accepted for mailing when inclosed in water-tight metal containers and placed in a strong pasteboard or wooden box and securely wrapped.

SEC. 24. Manufacturers or dealers intending to transmit articles in considerable quantities should submit to the post-master at the mailing office for approval a specimen parcel, showing the menner of packing.

SEC. 25. When sharp pointed instruments are offered for mailing, the points must be capped or encased, so that they can not cut through their covering. Blades must be bound so that they will remain firmly attached to each other or within their handles or sockets.

SEC. 26. Seeds and other admissible articles, which are liable from their form or nature to loss or damage unless specially protected, may be put up in sealed envelopes of material suiciently transparent to show the contents clearly without open-

ciently transparent to show the excitage ing.

Sec. 27. Ink powders, pepper, snuff, or other similar powders, not explosive, or any similar pulverized dry substance, not poisonous, may be sent in the mails when inclosed in the manner prescribed herein for liquids (see sec. 22), or when inclosed in cases made of metal, wood, papier-mache, or similar material, in such manner as to render impossible the escape of any of the contents.

in such manner as to reader impossible the escape of any of the contents.

Sec. 28. Flour of all kinds must be put up in such manner as to prevent the package breaking or cracking or the flour being scattered in the mails.

Sec. 29. Queen bees, live insects, and dried reptiles may be mailed in accordance with the instructions of the Department of Agriculture as promulgated by the Post Office Department under order number 6242, of May 4, 1912.

SEC. 30. Seeds of fruit, nursery stock, and all other plant products for propagation, may be mailed in accordance with the instructions of the Department of Agriculture as promulgated by Post Office Department orders, number 6313, of May 29 1912; number 6655, of November 16, 1912; and number 6674 of November 27, 1912.

1912; number 6655, of November 16, 1912; and number 6674 of November 27, 1912.

Sec. 31 Candies, confectionery, yeast cakes, soap in hard cakes, etc., must be inclosed in boxes and so wrapped as to prevent injury to other mail matter.

Sec. 32. Sealed original packages of proprietary articles, such as soaps, tobacco, pills, tablets, etc., put up in fixed quantities by the manufacturer, and not in themselves unmailable, will be accepted for mailing when properly wrapped.

Sec. 33. Fragile articles, such as millinery, toys, musical instruments, etc., and articles consisting wholly or in part of glass, or contained in glass, must be securely packed and the parcel stamped or labeled "FRAGILE." Parcels so labeled must be handled with the greatest possible care.

Sec. 34. Parcels containing perishable articles must be marked "PERISHABLE." Articles likely to spoil within the time reasonably required for transportation and delivery must not be accepted for mailing. (See sec. 1.)

2. Butter, lard, and perishable articles such as fish, fresh meats, dressed fowls, vegetables, fruits, berries, and articles of a similar nature which decay quickly, when so packed or wrapped as to prevent damage to other mail matter, will be accepted for local delivery (see sec. 3, par. 2a), either at the office of mailing or on aoy rural route starting therefrom. When inclosed in an inner cover and a strong outer cover of wood, metal, heavy corrugated pasteboard, or other suitable material, and wrapped so that nothing cao escape from the package, they will be accepted for mailing to any zone if packed so as to prevent damage to other mail matter.

4. Vegetables and fruits which do not decay quickly will be accepted for mailing to any zone if packed so as to prevent damage to other mail matter.

5. Eggs will be accepted for local delivery (see sec. 3, par. 2a) when so packed in a basket or other container as to prevent damage to other mail matter.

6. Eggs will be accepted for mailing regardless ol distance when intended for delivery at offic

6. Eggs will be accepted for mailing regardless of distance when each egg is wrapped separately and surrounded with

excelsior, cotton, or other suitable material, and packed in a container made of double corrugated pasteboard, metal, wood, or other suitable material in such manner as to place each egg on its end and to prevent them from striking together or against the side or top of the container, with an outer cover of double corrugated pasteboard, metal, wood, or other suitable material, and wrapped so that nothing can escape from the package. All such parcels must be labeled "EGGS."

SEC. 35. Salted, dried, smoked, or cured meats and other meat products may be admitted to the mails and may be transported, regardless of distance, from one State or Territory or the District of Columbia to another State or Territory or the District of Columbia when the provisions of the act of June 30, 1906, and the regulations promulgated thereunder by the Department of Agriculture, have been complied with; provided, however, that fresh meat in any form may be transported only within the first and second zone. (See sec. 34.)

SEC. 36. Specimens of dried blood or of diseased tissues or communicable diseases, cultures and tubercular sputum may be mailed in accordance with instructions of the Tersury Department (Bureau of Public Health and Marine-Hospital Service), as promulgated by the Post Office Department under torder No. 3064, of April 22, 1910.

SEC. 37. Postmasters must refuse to receive for mailing parcels and provided or redecided on redecided or set estiment.

SEC. 37. Postmasters must refuse to receive for mailing parcels not properly indorsed, or packed for safe shipment.

FORWARDING OF PARCELS

SEC. 46. Parcels may be remailed or forwarded on the payment of additional postage at the rate which would be chargeable if they were originally mailed at the forwarding office, in which case the necessary stamps shall be affixed by the forwarding postmaster. Payment must be made every time the parcel is forwarded.

INSURANCE ON PARCELS

INSURANCE ON PARCELS

SEC. 62. A mailable parcel on which the postage is tully prepaid may be insured against loss in an amount equivalent to its actual value, but not to exceed \$25, on payment of a fee of five cents and in amount equivalent to its actual value in excess of \$25, but not to exceed \$50, on payment of a fee of ten cents in stamps, such stamps to be affixed. The amount of the insurance fee shall be placed on the receipt given the sender and on the coupon retained at the mailing office.

2. When a parcel is insured, the sender will be given a receipt showing the office and date of mailing and number of the parcel. The parcel should be numbered to correspond with the receipt, stamped "INSURED," and an insurance tag securely attached. It will then be treated as ordinary mail until it reaches the office of address, when it must be delivered to the addressee or, unless otherwise directed by the addressee, to the person, firm or corporation in whose care it is addressed, or to any responsible person to whom the addressee's ordinary mail is customarily delivered, and a receipt obtained therefor on the tag attached to the parcel. When an insured parcel is received without the insurance tag attached, the prescribed receipt should be obtained from the addressee on delivery.

21/6. No article of any class bearing the word "Insured" on the outside envelope or wrapper, or on a tag or label attached thereto, shall be accepted for mailing, except insured parcel post mail.

3. A receipt signed by a person other than the addressee must

parcel post mail.

3. A receipt signed by a person other than the addressee must show the name of the addressee as well as that of the person signing it. A signature made by mark (X) must be attested by a reputable witness.

4. When a return receipt is desired by the conder of an inc.

reputable witness.

4. When a return receipt is desired by the sender of an insured parcel the postmaster at the mailing office shall stamp or write across the margin of the insurance tag the words "Return Receipt Desired," and the postmaster at the office of address shall obtain from the addressee a receipt and mail it to the sender.

REGISTRATION

SEC. 63. In view of the provision for the insurance of fourth

class mail and the furnishing of receipts for such mail where insured, the necessity for registration is removed and therefore fourth class matter shall not be admitted to the registered mail. SEC 65. A mailable parcel will be accorded the usual special delivery service when a special delivery stamp or ten cents in ordinary stamps are affixed thereto in addition to the parcel post postage. When ordinary stamps are used the words "Special Delivery" must be placed on the wrapper.

C. O. D. PACKAGES

SEC. 66. The sender of a mailable parcel on which the postage is fully prepaid may have the price of the article and the charges thereon collected from the addressee on payment of a fee of ten cents in stamps affixed, provided the amount to be collected does not exceed \$100. Such a parcel will be insured against loss, without additional charge, in an amount equivalent to its actual value, but not to exceed \$50.

2. The sender of a collect on delivery (C. O. D.) parcel will be given a receipt showing the office and date of mailing, the number of the parcel, and the amount due him.

3. A C.O.D. parcel will be accepted for mailing only at a money-order office and when addressed to a money-order office. Money-order offices are designated in the parcel post guide by an asterisk (*) or a dagger (†). The postmaster at the mailing office will be held responsible for the postage required for the return of a parcel addressed to a non-money-order office.

return of a parcel addressed to a non-money-order office.

5. The C. O. D. tag must show the amount due the sender, the money-order fee necessary to make the remittance, and the total amount to be collected. It should be securely attached to the parcel, which should be numbered to correspond with the tag, stamped C. O. D., and the charges to be collected plainly written thereon. The parcel will he treated as ordinary mail until it reaches the office of address, where, on payment of all charges, it will be delivered to the addresse or, nuless otherwise directed by the addresse, to the person, firm or corporation in v. ose care it is addressed, or to any responsible person to whom the addressee's ordinary mail is customarily delivered. A receipt for the parcel must be obtained on the tag attached thereto.

6. A receipt signed by a person other than the addressee must show the name of the addressee as well as that of the person signing it. A signature made by mark (X) must be attested by a reputable witness.

7. When a C. O. D. Darcel is received without the tag attached.

7. When a C.O.D. parcel is received without the tag attached, the charges shown on the parcel must be collected and the prescribed receipt obtained from the addressee.

8. An employee must receipt for the total number of parcels given him for delivery. This receipt will be surreadered to him either on the return of the parcels or the receipted tags and the total amount to he collected.

otal amount to be collected.

9. The receipted tag will be considered as the addressee's application for a money-order for the amount due the sender. A money-order will then be issued, stamped C. O. D., and mailed to the sender in a penalty envelope by the postmaster, who will enter on the tag the number of the money-order, the amount and date olissue, and file it with other money-order applications. No return receipt will be furnished the sender, as the money-order serves that purpose.

10. The addressee will not be permitted to examine the contents of a C. O. D. parcel until it had been receipted for and all charges paid. A parcel may be refused when it is tendered for delivery, but after delivery has been effected it cannot be returned on account of dissatisfaction with the contents or the amount collected.

11. A parcel may be forwarded, in accordance with Section

11. A parcel may be forwarded, in accordance with Section 46, without the payment of an additional C. O. D. fee. When so forwarded a duplicate receipt tag should be filed showing the office to which it is forwarded.

12. The records of C. O. D. parcels must be preserved at the mailing office for one year and at the delivery office for three years.

PARCEL POST GUIDE OF THE UNITED STATES

Giving the Unit numbers of Principal Cities, including all places having 16,000 or more inhabitants

To find on the map the location of any place named in this guide, or the Unit in which auch place is situated, run your eye along heavy-face numerals on the Canadian border until you come to the heavy-face numeral nearest to the desired Unit. Duluth, Minn., shown as in Unit 2555, may be quickly located by following the heavy-face numerals to 2550 and proceeding down this column to 2555.

erala to 2550 and proceeding	ng down this column to 253	15.				
UNIT	UNIT	UNIT	UNIT	UNIT	UNIT	UNIT
Aberdeen, Wash5705	Central Falls, R. L 465	Fall River, Mass 465	Lafavette, Ind 2018	New Albany, Ind 1922	Pittshurgh Pa 1368	South Bethlehem, Pa., 867
Akron, Ohio1516	Charleston, S. C1333	Fargo, N. Dak 3005	Lakewood, Ohio1515	Newark, N. J 767	Pittsfield, Mass 664	South Omaha, Nebr., 2916
Alameda, Cal5573	Charleston, W. Va1522	Fitchburg, Mass 513	Lancaster, Pa 968	Newark, Ohio1568	Pittston, Pa 916	Spartanburg, S. C1529
Albany, N. Y 713		Fond du Lac, Wis2161	Lansing, Mich1813	New Bedford, Mass 415	Plainfield, N. J 767	Spokane, Wash5053
Allentown, Pa 867	Chattanonga, Tenn1878	Fort Dodge, Iowa2763	Lawrence, Mass 463	New Britain, Conn 615	Plymouth, Pa 916	Springfield, Ill2319
Alliance, Ohio	Chelsea, Mass 464	Fort Smith, Ark	Leavenworth, Kan2820	New Brunswick, N. J. 768	Pontiac, Mich1663	Springfield, Mass 614
Altus, Okla3279	Chester, Pa 869 Chicago, Ill	Fort Wayne, Ind 1866	Lebanon, Pa 908	Newburgh, N. Y 766 Newcastle, Pa1367	Port Huron, Mich1503	Springfield, Mo2674 Springfield, Ohio1719
Amsterdam, N. Y 763	Chicago Heights, Ill2116	Freeport III 2314	Lewiston Me 360	New Haven, Conn 616	Portland Ore 5607	Stamford, Coon 716
Anderson, Ind1918		Fresno, Cal5325	Lexington, Ky	New London, Conn 566	Portsmouth, Ohio. 1621	Steubenville, Ohio1418
Ansonia, Conn 666	Cincinnati, Ohio 1820		Lima, Ohio	New Orleans, La2389	Portsmouth, Va 975	Stockton, Cal5173
Appleton, Wis2160		Galveston, Tex2840	Lincoln, Neb3017	Newport, Ky	Pottstown, Pa 918	Superior, Wis2555
Asheville, N. C1627	Clinton, Iowa2365	Gardner, Mass 513		Newport, R. 1 466	Pottsville, Pa 967	Syracuse, N. Y962
Ashtabula, Ohio 1415 Atchison, Kan			Lockport, N. Y 1212 Logausport, Ind 1967	Newport News, Va 1374	Poughkeepsie, N. Y 715	Tacoma, Wash 5554 Tampa, Fla 1593
Athens, Ga	Columbia S C 1481	Gloucester, Mass 413 Gloversville, N. Y 762	Long Beach, Cal5181	Newton Mass 464	Providence, R. I 465 Pueblo, Colo 3822	Taunton, Mass 465
Atlanta, Ga		Green Bay, Wisc 2159	Lorain Ohio 1566	New York, N. Y 767	Ouincy, Ill	Terra Haute, Ind2070
Atlantic City, N. J 770	Columbus, Ohio1619	Greensboro, N. C 1326	Los Angeles, Cal5180	Niagara Falls, N. Y1262	Ouincy, Mass, 464	Toledo, Ohio 1715
Attleboro, Mass 465	Concord, N. H 512	Greenville, S. C1579	Louisville, Ky 1922	Norfolk, Va 975	Racine, Wis	Topeka, Kan2920
Augusta Cn	Council Bluffs, Iowa 2916	Hackensack, N. J 767	Lowell, Mass 463	Norristown, Pa 868	Raleigh, N. C 1227	Torrington, Conn 665
Augusta, Ga	Covington, Ky1820	Hagerstown, Md1119	Lynchburg, Va1274	North Adams, Mass 663	Reading, Pa 918	Trenton, N. J 818 Troy, N. Y 713
Austin, Tex3138	Cumberland, Md1219	Hamilton, Ohio1820 Hammond, Ind2115	Lynn, Mass 414	Northampton, Mass. 614 No. Yakima, Wash 5355	Revere, Mass 464	Tulsa, Okla
Baltimore, Md 1020	Dallas, Tex3033	Hannibal, Mo2469	McAlester, Okla2929	Norwalk, Conn 666	Richmond, Ind1819	Union, N. J 767
Bangor, Me 209	Danbury, Conn 666 Danville, Ill	Harrisburg, Pa 1018	McKeesport, Pa1318 McKees Rock, Pa1368	Norwich, Conn 565	Richmond, Va1073 Roanoke, Va1324	Uniontowo, Pa 1319
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Battle Creek, Mich 1864	Davenport, Iowa2415	Hartford, Conn 615	Madison, Wis 2262	Oakland, Cal5573	Rockford, Ill	Vicksburg, Miss2434
Bay City, Mich	Dayton, Ohio1769	Haverhill, Mass 463	Mahanoy, Pa 967	Oak Park, Ill2115	Rock Island, Ills 2415	Vincennes, Ind2021
Bayonne, N. J 767	Decatur, Ill2219	Hazelton, Pa 917		Ogden, Utah4516	Rome, N. Y 862	Waco, Tex3085 Walla Walla, Wash5156
Beaumont, Tex2788 Belleville, Ill2321	Des Moines, Iowa2715	Hobuken, N. J 767 Holyoke, Mass 614	Manchester, N. H 463	Ogdensburg, N. Y 859	Sacramento, Cal5471	Waltham, Mass 464
Bellingham, Wash5551	Denver, Colo3819 Dubuque, Iowa2413	Homestead, Pa1318	Mansfield, Ohio1617 Marion, Ind1917	Oil City, Pa1316	Saginaw, Mich1712	Washington, D. C1071
Beloit, Wis2263	Duluth, Minn	Houston, Tex2889	Marion, Ohio1667	Olean N V 1164	St. Joseph, Mo2819	Washington, Pa 1368
Berkeley, Cal5573	Dunkirk, N. Y 1264	Huntington, W. Va 1572	Medford, Mass 464	Omaha Neh 2916	St. Louis, Mo2371	Waterbury, Conn 665
Beverly, Mass 413	Dunmore, Pa 916	Hutchinson, Kan 3122	Melrose Mass 464	Ilmange N 767	St. Paul, Minn	Waterloo, Iowa2564
Biddeford, Me 362	Duquesne, Pa1318	Indianapolis, Ind 1969	Memphis, Tenn2378	Oshkosh, Wis	Salem, Ore	Watertown, N. Y 911 Waukegan, Ills 2114
Birmingham, Ala2031	Durham, N. C 1226	Ithaca, N. Y 1014 Jackson, Mich 1764	Meriden, Conn 615	Uswego, N. Y 1012	Salt Lake City, Utah., 4517	Wausau, Wisc2309
Bloomfield, N. J 767	East Chicago, Ind2065	Tackson Miss 2384	Meridian, Miss 2234	Ottumwa, Iowa2566	Salt Lake City, Utah. 4517 San Antonio, Tex3190	Waycross, Ga1586
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Boise, Idaho4961	East Orange, N. J	Tacksonville, Fla 1538	Minneapolis, Minn2659	Paducah, Ky2224	Sandusky, Ohio1616	West Hoboken, N. J. 767
Boston, Mass 464	East Providence, R. I. 465	Jamestown, N. Y 1264	Missoula, Mont4705	Painesville, Ohio1465 Parkersburg, W. Va1520	San Francisco, Cal5573 San Jose, Cal5524	Wheeling, W. Va1418
Braddock, Pa1318	East Saint Louis, Ills 2371	Jersey City, N. J 767 Johnstown, Pa 1218	Mobile, Ala	Pasadena, Cal5180	Savannah, Ga1484	White Plains, N. Y 716 Wichita, Kan3073
Bridgeport, Conn 666 Brockton, Mass 464	Eau Claire, Wis 2459	Joliet, Ill2165	Moline, Ills2415	Passaic, N. J 767	Schenectady, N. Y 713	Wilkes Barre, Pa916
Brookline, Mass. 464	Elgin, Ills 2164	Joplia, Mo2824	Monessen, Pa1318 Montclair, N. J767	Passaic, N. J 767 Paterson, N. J 767	Scranton, Pa 916	Wilkinsburg, Pa1368
Bullalo, N. Y	Elizabeth, N. J 767 Elkhart, Ind 1915	Kalamazoo, Mich1914	Montgomery, Ala1984	Pawtucket, R. 1 463	Seattle, Wash5553	Williamsport, Pa 1066
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Burlington, Vt 660	El Paso. Texas3985	Kansas City, Mo2820	Mt. Vernon, N. Y 717	Pensacola, Fla2088	Shamokin, Pa 1017	Wilmington, N. C1130
Butler, Pa	Elyria, Ohio1566	Kenosha, Wisc 2113	Muncie, Ind 1868	Peoria, Ill	Sharon, Pa1416 Shawnee, Okla3028	Winona, Minn2510 Winston Salem, N. C., 1376
Butte, Mont4606	Enid, Okla3126	Key West, Fla 1549	Muscatine, lowa2466	Perth Amboy, N. I 767	Sheboygan, Wis2111	Woonsocket, R. L 514
Cambridge, Mass 464	Erie, Pa	Kingston, N. Y 715 Knoxville, Tenn 1727	Muskegon, Mich1962	Petersburg, Va 1074	Shenandoah, Pa 967	Worcester, Mass 514
Camden, N. J. 869	Evanston, Ill 2114 Evansville, Ind 2123	Kokomo, Ind1968	Muskogee, Okla2877	Philadelphia, Pa 869	Shreveport, La2734	Youkers, N. Y 717
Carbondale, Pa 915	Everett, Mass 464	Lackawanna, N. Y1213	Nanticoke, Pa 966 Nashua, N. H 463	Phoenix, Ariz	Sioux City, Iowa2964	York, Pa1019
Cedar Rapids, Iowa 2515	Everett, Wash5553	La Crosse, Wis2461	Nashville, Tenn 2026	Pinebluff, Ark 2580 Pittsburg, Kan 2824	Somerville, Mass 464	Youngstown, Ohio1416
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TRANSCONTINENTAL AUTOMOBILE TOURS

From material kindly furnished by the American Automobile Association.

Several distinct and predominant routes are being developed across the continent; gradually each is becoming standard; and has its special advantages, depending principally on the nature of the country and the time of the year. These routes may be summarized briefly as follows:

(1) Lincoln Highway, starting at New York City, crosses New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Iowa, Nebraska, with a loop into and out of Denver, Wyoming, Utah, Nevada, and California to San Francisco. It follows considerable portions of the Old Oregon Trail. There are some stretches of rough going between the Missouri River and the Sierra Nevada Mountains, but as a whole it offers an average of fair to good travelling and hotel accommodation practically throughout. West of Chicago the "Overland Trail" is for about 95 per cent of the way the route of the Lincoln Highway. route of the Lincoln Highway.

(2) Pike's Peak Ocean-to-Ocean Highway, starting at New York City, crosses New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Missouri, Kansas, Colorado, Utah, Nevada, and California to San Francisco—a most interesting and picturesque route crossing Pennsylvania along the William Penn Highway, and across the Rocky Mountains over new highway construction with magnificent scenery.

Santa Fe-Grand Canyon-Needles Route. The original line of the Trail to Sunset was through Albuquerque, Globe, Phoenix, and Yuma, the way it is largely travelled today; but more lately there has been developed a new and shorter connection from Albuquerque through Holbrook, Flagstaff, Williams, Needles, and San Bernardino to Los Angeles. This route affords an opportunity to visit the Grand Canyon of Arizona.

(4) The Northwest Trail, through Wisconsin, Minnesota, North Dakota, Montana, Idaho, and Washington should eventually be a popular midsummer route and open a fine territory to through automobile travel.

- (5) Twin Cities-Aberdeen-Yellowstone Park Trail. This is a newer and shorter route than the original line of the Northwest Trail between Minneapolis and the Yellowstone River in eastern Montana, and likely to carry an increasing proportion of the travel from Chicago, St. Paul, and Minneapolis into the Northwest.
- (6) The All-Southern Route, through Virginia, North Carolina, Tennessee, Arkansas, Texas, New Mexico, and Arizona, though as yet only partially developed, will ultimately be a popular fall and winter route, offering many scenic attractions and climatic advantages.
- (7) Atlantic-New Orleans-Texas Option. An increasing amount of travel from the Atlantic seaboard to the southwestern States is following this route despite some drawbacks between Mobile and Houston, especially in wet weather. But it is the most logical way from Florida, southern Georgia and Gulf of Mexico points to New Mexico, Arizona, and southern California.

OVERLAND TRAIL

OVERLAND TRAIL

Improved roads, principally gravel, extend most of the way from Chicago through Geneva, Dixon, and Sterling, Ill., to the Mississippi River, which is crossed into Clinton, Iowa. The Central Transcontinental Route, as it is called in that State—passing through Cedar Rapids, Marshalltown, State Center, Jefferson, and Denison to Council Bluffs—provides excellent travelling in dry and settled weather, but is slow and difficult to cover in or after heavy rains. Crossing the Missouri River into Omaha, Nebraska, one has a choice between two important routes from that city to Cheyenne, Wyoming.

The upper one, with which the name "Overland Trail" is more closely identified, follows the Platte River valley through Fremont, Columbus, Grand Island, and Kearney to North Platte, and then along the South Platte River to Big Spring, Nebraska, beyond which the Union Pacific Railroad is paralleled generally to Cheyenne. The lower one, known as the Omaha-Lincoln-Denver Transcontinental Route, turns southwest from Omaha to Lincoln, thence nearly direct west, following closely the line of C., B. & Q. R. R. through Hastings and McCook, Nebraska, Sterling and Fort Morgan, Colorado, to Denver. If one is leaving Omaha, with Denver the next important objective point, it may be desirable to use the lower route. A complete circuit from Cheyenne to Denver and return can be made by any who may prefer to follow the main line of the "Overland Trail" throughout, with a side trip to the Colorado capital.

Proceeding west from Cheyenne, the route passes over Sherman Hill, topped by the Ames monument, erected to commemorate the completion of the Union Pacific originally crossing this summit, but now built around it. There are two routes between Laramie and Rawlins, Wyoming, the shorter way via Elk Mountain, more hilly but providing a quicker run during good, settled weather, and the longer way along with the railroad through Medicine Bow, preferable for a leisurely trip, or in the late fall or early spring. The final choice betwe

Ely is the strategic route centre of eastern Nevada, as here the Salt Lake City-Ely-Goldfield-Los Angeles route ("Midland Trail") crosses the Salt Lake City-Ely-Eureka-Austin-Reno line ("Overland Trail"). The tourist using the option via Ogden, bound for Goldfield and Southern California, should continue through Snowville and Kelton to Cobre, thence nearly south to Ely over a reasonably good road. By taking the northern route to Cobre, the traveller saves the desert between Salt Lake City and Ely over the direct route.

Roads Sometimes Very Bad. In brief, the tourist west-bound across Utah and Nevada should consider the essential differences between these two routes, and then choose the one judged best for his particular purpose, temporary road conditions taken into account. One who has crossed southern Wyoming need not fear road conditions on either of the two main routes west of Salt Lake City, except for the occasional heavy rains or cloudbursts.

rains or cloudbursts.

rains or cloudbursts.

When the latter are encountered, as on the stretch from Austin to Fallon, Nevada, the desert valleys and flats are converted into shallow lakes of thick, sticky mud, composed largely of adobe or alkali. The many mountain ranges in Nevada run practically north and south, and as the route from Ely via Eureka and Austin runs practically east and west, it follows that these mountains must be crossed. This is done via passes, most of which are low; after a cloudburst or very heavy rains, some of these passes are washed out, and at the same time deep arroyos are encountered at frequent intervals, making progress very slow.

From Reno, on the main line of the Overland Trail, there are again two options across the Sierra Nevada Mountains to Sacramento; one along the railroad across Truckee Summit and the other, and probably most popular, south to Carson City, thence up over the mountains to beautiful Lake Tahoe. To see the beauties of this lake to best advantage, tourists are advised to take a run up the new road built along its west shore to Tahoe Tavern. The route then crosses the Sierra Nevada Mountains over fair roads, and down through Placerville to Sacramento. No better highways are to be found anywhere than those leading from

Mountains over fair roads, and down through Placerville to Sacramento. No better highways are to be found anywhere than those leading from the California capital to San Francisco.

Road travel across the Sierra Nevada Mountains this way is only possible between about May 20th and November 15th, which dates should in fact be considered the extremes, as heavy snows might close the route earlier in the fall or keep it closed later in the spring. Parties starting from the Atlantic Coast about the middle of April will ordinarily reach the Sierras as soon as they can be crossed with comparative ease.

"TRAIL TO SUNSET"

The route of the "Trail to Sunset," largely over the "National Old Trails," has been carefully and deliberately chosen from a strictly touring Trails," has been carefully and deliberately chosen from a strictly touring standpoint, offering varied scenery and numerous points of historic interest. Starting at Chicago, the great meeting-place of travel from the Eastern States, it traverses Illinois on good gravel roads to the Mississippi River, crossing same into Davenport, Iowa. From Davenport to Des Moines it uses the River-to-River Road, graded and marked with a white band on telephone poles throughout its length.

Formerly the trip from Des Moines to Kansas City was made largely by Omaha, and thence south along either side of the Mississippi River. This can still be done if desired, but improvements on the much shorter lines from Iowa City through Chillicothe and from Des Moines through St. Ioseph to Kansas City are now sending a large part of the travel that

St. Joseph to Kansas City are now sending a large part of the travel that way. Leaving Kansas City, one enters the historic Santa Fé Trail and follows it for the most part across the entire length of Kansas. It is marked at frequent intervals with granite monuments erected by the Daughters of the American Revolution; and for a great portion of its length follows the Arkansas River.

length follows the Arkansas River.

From La Junta, Col., the route strikes southwest through the southeast corner of Colorado, still following the Santa Fé Trail to Trinidad, thence across the beautiful Raton Pass into New Mexico.

The route follows closely the A. T. & S. F. R. R. and, still on the Santa Fé Trail through Las Vegas to Santa Fé, traversing large cattle ranges and passing Mexican adobe houses and Indian pueblos. From Santa Fé to Albuquerque the route goes through several Indian towns. At Albuquerque two options to Springerville, Ariz., are available. The best road surface will be found at present on the route leading south from Albuquerque and crossing the Rio Grande at Socorro, thence west via Magdalena, San Augustine Plains, Datil Mountains and Rito Quemado to Springerville, Arizona. From the Mormon settlement of Springerville, the route traverses the White Mountain National Forest, crossing the plateau of the White Mountains, 9,000 feet above sea level, and passing through the Apache Indian Reservation.

From Fort Apache the route leads across the Natanes Mountain range,

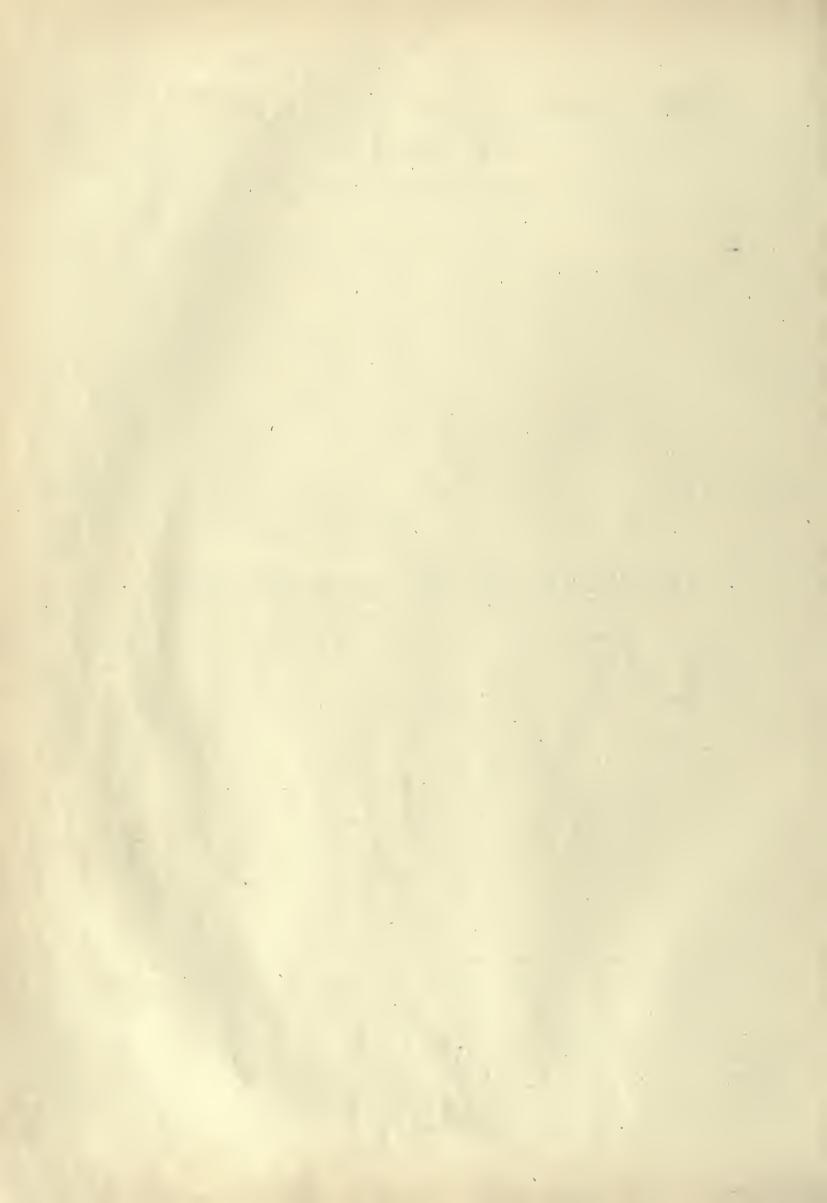
level, and passing through the Apache Indian Reservation.

From Fort Apache the route leads across the Natanes Mountain range, dipping into the desert near the Gila River at Rice in the San Carlos Reservation. It passes through the copper-mining town of Globe, and thence over the magnificent state road leading via the famous Roosevelt Dam and down the splendid Salt River Canyon to Phoenix, the Arizona capital. Leaving Phoenix this route soon dips into the Gila Valley, a wide sandy desert, and passes Agua Caliente Springs. Just beyond, at Palomas, a wide detour northward is made on to a mesa to escape deep sand on the direct route along the river. However, this direct route is scheduled for improvement by the State, and will cut off 30 miles. The route goes through a pass in the Castle Dome Mountains and crosses the Gila River at Dome (by ford or ferry, according to the depth of the water), thence 18 miles to Yuma.

Here the tourist crosses the Colorado River over a new bridge. During the late fall or early spring. The final choice between them will be determined by future improvements.

West of Rawlins the going becomes rougher through Wamsutter and across the Continental Divide at Creston. The Bitter Creek country between Point of Rocks and Rock Springs is the roughest stretch on the entire "Overland Trail," though hard going continues most of the way to Granger, Bridger, and Evanston. Near the Utah line the route enters works of the Mormons. Near Beho Station in the canyon the other continuing through Parley's Canyon direct to Salt Lake City, and the other continuing through Weber Canyon to Ogden. Two Main Routes Across Utah. Strangers approaching Utah from the northern part of that state, one below and the other above Great Salt Lake. If there is any hesitation about crossing the desert, as with Salt Lake. City be cut out, and the route taken from Echo Chayon to Ogden, the "morthern portor" of the Sant Canyon to Ogden, the "morthern portor" of the Sant Canyon to Ogden, the "morthern portor" of the Sant Canyon to Ogden, the "morthern portor" of the Sant Canyon to Ogden, the "morthern portor" of the Sant Canyon to Ogden, the "morthern portor" of the Sant Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morthern portor" of the Sant Lake City be cut out, and the route taken from Echo Canyon to Ogden, the "morth

THE WORLD AS THE HOME OF MAN



THE WORLD AS THE HOME OF MAN

GLIMPSES OF LANDS AND PEOPLES

EUROPE

ITS CENTRAL POSITION.—Europe, next to Australia the smallest of the continents, has stamped its influence on the entire world. Indeed, the history of the world largely hinges on the history of Europe. Occupying a central position in the mass of continents, Europe is eminently fitted by nature for this predominance. No other continent can compare with it in the variety of its configuration or in the relative extent of its coast-line. The commercial advantages of this structure are obvious.

It is a no less important consideration that the varied outline of Europe, together with its diversity of surface, has given rise to several centres of civilization, independently developed in their physical seclusion from intervening regions. For nowhere else do we meet with such marked peninsular formations, no vast uninterrupted tracts of land occurring anywhere except in the east. And these very eastern regions are all comprised within the limits of one political state—the vast empire of the Russian Slavs; while all the other European nations are crowded together in what remains of the continent.¹

ITS RELATION TO AMERICA.—Geographically, Europe is an extension of Asia; but though the political boundary is an arbitrary one, the two continents are distinct in culture, religions, and ideals. Civilization has travelled westward, and the seed of Europe has borne rich harvest in the New World.

"East is East, and West is West." Kipling's line is too often quoted without reflecting that the "West" is not marked by the western shores of Britain, but has its farther boundary on the Pacific seaboard. The chronicler who records the progress of modern civilization will not think in terms of an Eastern and a Western Hemisphere. The time-honoured division has been an anachronism since the banner of democracy was unfurled on either side of the Atlantic. The "herring pond" is no longer a barrier, but a bond of union between Europe and America. Politically the United States has stood aloof, and in consequence a false notion of separateness has grown in the popular mind. Actually, America is more intimately related to the various European states than any one of such states is to another. The long period of political isolation was finally ended when the soldiers of democracy-French, British, and American-fought side by side on the fields of France and shed their blood in one

This truer conception of the West is ably expressed by that keen observer and accomplished essayist G. Lowes Dickinson:

That there is a West, in a real sense, with a unit of its own, is, I think, true. But it must be limited in time to the last two centuries, and in space to the countries of Western Europe and the continent of America. So understood, the West forms, in all the most important respects, a homogeneous system. True, it is divided into different nations,

speaking different languages, and pursuing different, and often conflicting, policies; and these distinctions are still so important that they colour our fears and hopes and sympathies, and take form in the burden of armaments and the menace of war. Nevertheless, seen in the perspective of history, they are survivals, atrophying and disappearing. Behind and despite of them there is a common Western mind and a common Western organization. Finance is cosmopolitan; industry is cosmopolitan; trade is cosmopolitan. There is one scientific method, and the results achieved by it are common. There is one system of industry, that known as Capitalism; and the problems arising from it and the solutions propounded appear alike in every nation. There is one political tendency, or fact—that of popular government. There are cognate aims and similar achievements in literature and art. There is, in brief, a Western movement, a Western problem, a Western mentality; and the particular happenings of particular nations are all parts of this one happening.¹

RACES OF EUROPE.—How was Europe peopled? The question might have seemed easy a few years ago, and Macaulay's schoolboy would have replied glibly that the people of Europe sprang mostly from a common Aryan stock "somewhere in Asia." Could he prove this? Easily enough. Are not the languages themselves sufficient proof? Are not the different branches of the Indo-European or Aryan family of languages-the Teutonic, Romanic, Slavonic, and Celtic-proof that the people speaking them are members of the same original stock? But these ideas are now more or less exploded. The "Aryan race" rests on no satisfactory evidence; while the most we can say with certainty about the Aryan languages is that they have spread from some geographical centre which must be looked for in some part of Europe and not in Asia at all. But language is not a test of race. The American negro speaks English, but that does not make him of the same race as the Anglo-Saxon. Nor can we readily believe that the tall fair Norwegian is of the same race as the short swarthy Tyrolese, though both speak a kindred tongue. Here we part company with the philologists.

Anthropologists, however, make use of different data. They realize that the shape of the skull, the texture of the hair, and other peculiarities, are more reliable criteria than language. They are generally agreed that there are not merely one but three great racial types in Europe, all intermingled but nevertheless distinct. These are: (1) the Teutonic, with long head and face and narrow prominent nose, high stature, blond hair, and blue eyes; (2) the Alpine, with round head, broad face, broadish nose, medium height, and stocky build, light chestnut hair, and hazel gray eyes; and (3) the Mediterranean, with oval head and face, rather broad nose, medium height, slender build, dark brown or black hair, and dark eyes.

The *Teutonic* or *Northern race* is confined to northwestern Europe, and is seen at its purest in Scandinavia, Denmark, North Germany, and the east of Great Britain. Its original home remains a mystery; though possibly it was in the northeast of Europe.

¹G. G. Chisholm, "Europe" (1899).

¹G. Lowes Dickinson, "Appearances" (1915).

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The Alpine race is found in the mountains of Central Europe, and also on the Russian plain. This race is regarded by Ripley1 as an Asiatic element which once pushed forward as far northward as Brittany and even the British Isles, but afterward retired before the advance of the Teutonic race. It is identified with the "Celtic race" of other anthropologists. These Alpine migrants introduced the use of bronze but left no marked traces of themselves among the permanent population of the north. Another Alpine offshoot affected Greece, while in Asia Minor they appear in history as the dreaded Hittites.

The Mediterranean race centres along the shores of the Mediterranean, and comprises the ancient Iberians of the western peninsula, the Ligurians of southeastern Gaul and northern Italy, the Pelasgians or early inhabitants of Greece, and the denizens of northern Africa (the probable headquarters of the race). The Mediterranean race pushed as far north as Scotland and eastward to the Upper Danube.

From earliest times a constant movement of people has been taking place in Europe, from motives of conquest, commerce, or better settlements. The continent itself is peculiarly well fitted for such migrations, for its configuration is such that movement is rendered comparatively easy. Hence we see the chaotic blending of types in almost every country of Europe, and were we guided by speech alone the ethnical problem would remain unsolved. See Racial Map of Europe, p. 22.

SYNOPSIS OF EUROPE

(See Maps, pp. 22-29)

EXTENT.—Area 3,814,000 square miles; greatest length, from Cape St. Vincent to the Urals, 3,370 miles; greatest breadth, from Cape Matapan to Nordkyn, 2,400 miles. Europe occupies about one-fourth of the land surface of the globe. It is only one-third the size of Africa and about one-fifth the size of Asia.

POPULATION.—446,805,000, or about one-fourth of the human race. Peninsulas.—Europe has nine peninsulas: four in the south.—The Peninsula (Spain and Portugal), Italy, Balkan Peninsula, and the Crimea; four in the north.—Jutland, Scandinavia, Kanin, and Kola; and one in the

Peninsula (Spain and Portugal), Italy, Balkan Peninsula, and the Grimea; four in the north—Jutland, Scandinavia, Kanin, and Kola; and one in the west—Brittany.

The Isthmus of Perekop connects the Morea with the mainland of Greece. The Isthmus of Perekop connects the Crimea with the mainland of Russia, Capes.—Nordkyn, North Cape, and the Naze in Norway; the Skaw in Jutland; Ortegal and Finisterre in the north of Spain; Cape Wrath, north of Scotland, Cape Clear, south of Ireland, and Land's End, southwest of England; Roca and St. Vincent in Portugal; Trafalgar and Tarifa in the south of Spain; Santa Maria di Leuca and Spartivento in Italy; and Matapan in the south of Greece. North Cape on an island is the most northerly point of Europe. The most northerly point on the mainland is Cape Nordkyn. Cape Roca is the most westerly and Cape Tarifa the most southerly point.

SEAS, BAYS, GULFS, ETC.—Europe is the continent of inland seas. The three on the north are the White Sea, the Baltic, and the North Sea; the three on the south are the Caspian, the Black, and the Mediterranean. The White Sea is a vast bight of the Arctic Ocean and is very shallow. The Baltic is shallow and almost tideless; its chief gulfs are those of Bothnia, Finland, and Riga. The North Sea is a shallow sea between Great Britain and the Continent. It contains numerous sandbanks, over some of which there is only 100 feet of water. It has two large bights, the Zuider Zee and the Dollart. The Irish Sea between Great Britain and Ireland may be regarded as part of the North Sea, though it is much deeper. The Caspian is shallow in the north and very deep in the south. The Black Sea receives the drainage of nearly one-third of Europe. It is connected to the Mediterranean by the Bosphorus and Sea of Marmora and the Dardanelles. Its branch, the Sea of Azof, is very shallow. The Mediterranean is the largest inland sea in the world. It is 2,330 miles long and has an area of 1,007,220 square miles. It includes four minor seas—the Adriatic (with the Gulfs of Tr

on the African. The Bay of Biscay on the Atlantic is one of the stormiest seas in the world.

STRAITS AND CHANNELS.—The most important waterways are the passages between the Atlantic and the North Sea, between the North Sea and the Baltic, between the Atlantic and the Mediterranean, and between the Mediterranean and the Black Sea.

The English Channel (called by the French "La Manche" or the Sleeve, from its shape) and the Strait of Dover connect the North Sea with the Atlantic. The Strait of Dover between France and England is twenty miles wide, and its greatest depth does not exceed 177 feet. On account of the enormous traffic between England and the Continent a tunnel under the strait has been proposed. The Skager-Rak and Kattegat form a continuous waterway into the Baltic, which is blocked by a group of islands. Between the mainland and these lie the Sound, the Great Belt, and the Little Belt, the first of which is the most frequented passage. The Strait of Gibraltar is the passage into the Mediterranean. The Strait of Messina, between Italy and Sicily, connects the Tyrrhenian Sea and Ionian Sea. The rattar is the passage into the Mediterranean. The Strait of Messina, between Italy and Sicily, connects the Tyrrhenian Sea and Ionian Sea. The Strait of Otranto joins the Ionian with the Adriatic. The Strait of Bonifacio lies between Sardinia and Corsica. The Dardanelles unites the Ægean and the Sea of Marmora. The Bosphorus leads from the Sea of Marmora into

the Sea of Marmora. The Bosphorus leads from the Sea of Marmora into the Black Sea.

Islands.—The chief islands in the Arctic Ocean are Jan Mayen, Vaygach, and the archipelago of Nova Zembla. In the Atlantic are the Lofoten Islands off the coast of Norway; Iceland and the Faroe Islands; the British Isles, including the Channel Islands, off the north coast of France; and the Azores, 900 miles west of Portugal. In or at the entrance of the Baltic are the Danish Archipelago (Zealand, Fünen, etc.); Rügen and Bornholm;

Öland and Gothland; Dagö and Ösel; Åland Islands. In the Mediterranean are the Balearic Islands (the largest of which is Majorca); Corsica, and Sardinia (with Elba); Sicily and Malta; the Jonian Islands, west of Greece; the Cyclades, and Sporades in the Ægean (with Negropont, the largest island in that sea); Crete and Cyprus. "Cyprus is generally regarded as an Asiatic island. The largest island in the Mediterranean is Sicily; the next Sardinia: Mountains.—The mountain ranges of Europe lie chiefly in the south and in the northwest. The principal ranges are: the Sierra Nevada in Spain (highest peak, Mulhacén, 11,421 ft.); the Pyrenees between France and Spain (highest point, Pic de Néthou, 11,165 ft.); the Alps, the highest mountains in the interior of Europe (highest peak, Mont Blanc, 15,781 ft.); the Apennines in Italy (highest peak, Monte Corno, 9,585 ft.); the Carpathian in Austria-Hungary, inclosing the Great Plain of Hungary (highest peak, Ferencz József, 8,737 ft.); the Balkans extending from Serbia to the Black Sea (mean height of the highest range, 6,500 ft.); the Caucasus between the Black Sea and the Caspian (highest peak and loftiest mountain in Europe, Mount Elbruz, about 18,526 ft.); the Ural Mountains, formerly called by the Russians "The Girdle of the Globe," on the east of Russia in Europe (highest peak, Toll-Poss-18,5,540 ft.); and the Scandinavian Mountains, the southern portion of which is the higher (highest peak, Galdhöpiggen, the loftiest summit in Norway, 8,400 ft.).

Volcanoes.—The volcanoes of Europe are, with the exception of Mount Hekla, limited to the islands and peninsulas of the Mediterranean. The principal active volcanoes are: Mount Hekla in Iceland (5,110 ft.); Etna, the highest mountain in Sicily (10,867 ft.); Vesuvius, a flattened conical mountain on the Bay of Naples (4,267 ft.); and Stromboli, one of the Lipari Islands in the Mediterranean.

Plateaus.—The Great Plain of Europe extends from the Pyrenees to the Urals, and embraces about two-thirds of the surface of the contine

flow into the southern seas.

RIVERS.—The rivers of Europe are equally distributed, and most of them are navigable, with good harbours at or near their mouths.

CHIEF RIVERS DRAINING NORTHWESTERN SLOPE

RIVER	(miles)	SOURCE	course*	моитн
Guadalquivir Guadiana Tagus Douro Garonne Loire Seine Meuse Rhine Elbe Oder Vistula Niemen Düna Dwina Dwina Dwina Dwina Duna Dwina Duna Duna Duna Duna Duna Duna Duna Du	374 515 566 500 355 543 480 575 810 700 552 630 1,100	E. Spain E. Spain E. Spain N. Spain Pytenees S. E. France E. France Vosges Mt. St. Gothard Bohemia Carpathians Carpathians W. Russia Valdai Hills N. Russia	W. & S. W. & S. W. & S. W. W. N. W. N. W. N. & W. N. & W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W. N. W.	Atlantic Atlantic Atlantic Atlantic Bay of Biscay Bay of Biscay English Channel North Sea North Sea Baltic Baltic Gulf of Riga White Sea

CHIEF RIVERS DRAINING SOUTHEASTERN SLOPE

RIVER	LENGTH (miles)	source	COURSE	моитн
Ebro	470 504 418 1,770 850 1,330 1,150 2,300 1,300	N. E. Spain Mt. St. Gothard Mt. Viso (Alps) Baden Carpathians Central Russia Central Russia Valdai Hills Urals	S. E. S. E. S. E. S. E., S., & S. W. S. E., S., & S. W. E. & S. S. W. & S.	Mediterranean Gulf of the Lion Adriatie Black Sea Black Sea Black Sea Sea of Azof Caspian Caspian

The Danube. The Danube and the Rhine are the two great waterways of Europe. The Danube is the only large European river that flows due east; and it is therefore the great highway to the East for South Germany, Austria, Hungary, Serbia, Roumania, and Bulgaria. The Danube drains one-thirteenth of the surface of Europe. Its course is divided into Upper, Middle, and Lower. The current of the Upper Danube is rapid, descending through a mountainous country as far as Vienna. The Middle Danube flows from Vienna through the Plain of Hungary to the Austrian boundary. There it passes through a ravine 60 miles in leogth, between the Carpathian and Balkan Mountains. The end of this ravine is a narrow gorge called the Iron Gate. The Lower Danube, after flowing through a flat country, discharges itself into the Black Sea by three principal mouths. The Danube is very broad in some places, and studded with islands. Steam vessels ply between the chief towns on its banks, though navigation is in some parts difficult. The chief tributaries are the Iser, Inn, Theiss, Drave, Save, Alutz, Sereth, and Pruth.

The Rhine. The Rhine, the glory of the Fatherland, is the great waterway for Western Europe. Rising in two streams—the Vorder Rhine and the Hinter Rhine—on the eastern slopes of Mount St. Gothard, the Rhine flows northward into Lake Constance. Thence it continues its course over a rocky bed west to Basel, forming several falls and rapids, the most noted being the Falls of Schaffhausen. Entering Germany, the Rhine flows in a northerly direction through a wide valley, between the Vosges and Black Forest Mountains. It turns to the west at Mainz and then proceeds in a northwest direction. From Bingen to Bonn the scenery is wild and beautiful, presenting to the view high mountains, steep rocks, dense forests, vine-clad slopes, romantic valleys, flourishing towns, pretty villages, ancient castles, old ruins, and picturesque islands. Below Bonn, the river flows through a flat country to the North Sea. After entering Holland, the Rhine d

which contributes much to the weaken of Frontand Main, and Moselle.

With the Danube, the Rhine at one time formed the boundary of the Holy Roman Em-pire. Before 1870, part of its left bank was French territory; but since the Franco-Prussian War of 1870-71, both banks from the Swiss to the Dutch frontiers, have been in the possession of the German Empire.

LAKES.—Ladoga, in the northwest of Russia, is the largest lake in Europe (area about 7,000 square miles); the other chief lakes are Onega, northeast of Lake Ladoga; Wener, Wetter, and Mälar, in Sweden; Constance, Geneva, and Lucerne in Switzerland; and Maggiore, Como, and Garda, in the north of Italy. The Swiss and Italian lakes are celebrated for the beauty of their

MINERALS.—Europe is well supplied with mineral wealth, more expecially coal, iron, lead, copper, and salt. Great Britain, Germany, and Austria-Lungary contain the largest quantity of minerals. Precious metals are rare.

MINERALS	WHERE FOUND
Coal	Great Britain, Germany, Austria-Hungary, France, Belgium, Russia, Italy, Holland, Sweden, Bulgaria, Serbia, Roumania, Greece, Portugal.
Iron	Germany, Great Britain, Spain, Russia, Sweden, France, Austria-Hungary, Italy, Belgium, Portugal.
Lead	Germany, Spain, Great Britain, Italy, France, Austria-Hungary.
Copper	Spain, Germany, Russia, Portugal, Italy, Norway, Austria-Hungary, Great Britain, France, Sweden.
Salt	Great Britain, Russia, Germany, France, Austria-Hungary, Italy, Spain, Roumania, Greece.
Zine	Germany, Italy, Spain, France, Sweden, Russia, Great Britain, Austria- Hungary, Greece, Belgium.
Tin	Great Britain.
Quicksilver	Spain, Austria-Hungary, Germany.
Gold	Russia, Hungary.
Silver	Germany, Austria-Hungary.
Petroleum	Russia, Austria-Hungary, Roumania, Germany.

VEGETABLE PRODUCTS.—The chief grain crops are wheat, barley, rye, ats, and, in southern Europe, maize and rice. Russia is the chief wheat oats, and, in southern Europe, maize and rice. Russia is the chief wheat producing country of Europe. Rye, which can be grown on poorer soils than wheat, is produced principally in Russia, Germany, and AustriaHungary. It is mainly used in making a "black" bread, which is largely eaten in central and eastern Europe. Barley is cultivated to the greatest extent in the wheat areas. It is now chiefly produced to obtain the malt for brewing. Oats are grown in Russia and Germany, and in the north and west of the British Isles. Maize is cultivated in Austria-Hungary, Roumania, and Italy. Rice is grown chiefly on the Plain of Lombardy.

Other important crops are the sugar-beet, extensively cultivated in central Europe, potatoes, flax, beyn, and hops. Apples, pears, plums, cherryles.

real Europe, potatoes, flax, hemp, and hops. Apples, pears, plums, cherries, currants, and gooseberries are grown in the middle latitudes; the vine and olive in the south; and oranges, lemons, figs, almonds, and mulberries along the shores of the Mediterranean. See Economic Map of Europe, p. 27.

Animals.—Wild animals: The boar and the brown bear are found in the German forests, in the Alps, and the Pyrenees. Wolves are numerous in Russia. The charmois and the ibey (now rare) are found on the bicker parts.

Russia. The chamois and the ibex (now rare) are found on the higher parts of the Alps and Carpathians. The beaver is found in Russia, Sweden, Poland, Finland, and Lapland, but it is dying out.

Domestic animals: The horse, ass, dog, ox, sheep, goat, pig, and in Lap-

land the reindeer.

Birds: In the north, numbers of wild geese, swans, eider ducks, etc., frequent the shores; while in the west and south are found the stork, crane, and flamingo. Birds of prey are numerous, and include the eagle and vulture (in the Alps and Pyrenees), falcon, hawk, and owl.

Reptiles: Less numerous than in any other continent, and few are venom-

Fishes: Plentiful in all the seas and rivers of Europe. The tunny and Fishes: Plentiful in all the seas and rivers of Europe. The tunny and sardine are found in the Mediterranean, and are the most important food fishes of southern Europe. In the seas of northern Europe are the cod, mackerel, herring, pilchard, lobster, crab, and many others. Salmon, trout, etc., are abundant in the large rivers. The sturgeon is plentiful in the Caspian Sea' and the Volga, and a large trade is done chiefly in the preserved roe, called caviare, and in isinglass.

Insects: Not so troublesome as in some parts of the globe. The silkworm and honey hee are the two most useful.

and honey bee are the two most useful.

COUNTRIES OF EUROPE

	AREA	POPULATION ¹			
COUNTRY	(sq. miles)	Total	Per sq. mile	CAPITAL	DESIGNATION
United Kingdom Norway Sweden Denmark Netherlands Belgium France Germany Russia (in Europe) Austria-Hungary Switzerland Italy	121,090 124,675 172,920 15,586 12,741 11,373 207,129 208,825 2,123,009 261,027 15,955 110,688	45,500,000 2,391,000 5,521,000 2,775,000 5,858,000 7,423,000 39,601,000 64,925,000 141,359,000 51,390,000 3,765,000	374 19 32 180 407 658 193 311 67 196 236	London Christiania Stockholm Copeuhagen Amsterdam Brussels Paris Berlin Petrograd Vienua Bern Rome	Kingdom Kingdom Kingdom Kingdom Kingdom Kingdom Republic Empire Republic Empire Republic Kingdom
Spzin	195,056 35,500 5,475 33,708	19,950,000 5,960,000 435,000 4,623,000	103 155 80	Madrid Lishon Cetinje Belgrade	Kingdom Republic Kingdom Kingdom
Bulgaria	42,000 53,937 44,780 7,000	4,467,000 7,601,000 4,256,000	107 142 95 230	Sofia Bukharest Athens Constantinople	Kingdom Kingdom Kingdom

In addition to the above countries, there are also the following small states: Luxemburg, a Grand Duchy in Central Europe (area 999 square miles, population 298,000), Liechtenstein, a principality on the Upper Rhine (area 65 square miles, population 9,854); Andorra, a miniature Republic in the Pyrenees (area 175 square miles, population 5,231); San Marino, another miniature Republic, on the Adriatic (area 24 square miles, population 12,000) Monaco, a principality on the Mediterranean between France and Italy, in which is *Monte Carlo* with its famous casino. Monaco is about 3 miles long and 1½ miles broad, with 23,000 inhabitants and a yearly average of 1,500,000 visitors. The whole available ground is built over, so that there is no cultivation. that there is no cultivation.

UNITED KINGDOM

(See Map, p. 33)

Britain is "Home" to many millions of people scattered over the face of the globe. Her sons have carved out new homes for themselves in distant lands; but the ties of blood still bind, and when the existence of the homeland is threatened by the foes of democracy, the sons of Britain rush unbidden from the ends of the world to fight for the struggling Motherland.

This little island has a record more wonderful than that of Rome. Its history, its literature, its laws, and its traditions are the common heritage of the English-speaking race. It is the land which gave birth to the founders of the American commonwealth, and from which almost all of our great men have derived their descent. The severing of political ties when a German king of England tried to stamp his

autocratic rule on a free-spirited citizenry did not sever the surer ties of kinship and common inheritance between the two peoples. The peace of more than a century has been solemnized on the battlefields of Europe, where Briton and American fought as brothers in arms.

In commerce Great Britain is our best customer, and her vast dependencies are open to American enterprise without any hindrance whatsoever. Next to the United States, the United Kingdom is in every sense of first importance to Americans, and demands relatively more space than can be given to other European countries.

THE ENGLISH.—The traveller in the United Kingdom will find that the picture drawn by the kindly American Ralph

¹See Population Map of Europe, p. 28.

Waldo Emerson in his "English Traits" is as fundamentally true to-day as it was in 1847.

The nation sits in the immense city they have builded, a London extended into every man's mind, though we live in Van Dieman's Land or Capetown. Faithful performance of what is undertaken to be performed, they honour in themselves, and exact in others, as certificate of equality with themselves. The modern world is theirs. They have made and make it day by day. The commercial relations of the world are so intimately drawn to London, that every dollar on earth contributes to the strength of the English Government. And if all the wealth in the planet should perish by war or deluge, they know themselves competent to replace it.

They have approved their Saxon blood, by their sea-going qualities; their descent from Odin's smiths, by their hereditary skill in working in iron; their British birth, by husbandry and immense wheat harvests; and justified their occupancy of the centre of habitable land, by their supreme ability and cosmopolitan spirit. They have tilled, builded, forged, spun, and woven. They have made the island a thoroughfare; and London a shop, a law-court, a record office, and scientific bureau, inviting to strangers; a sanctuary to refugees of every political and religious opinion; and such a city that almost every active man, in any nation, finds him-

self, at one time or other, forced to visit it.

In every path of practical activity, they have gone even with the best. There is no secret of war, in which they have not shown mastery. The steam-chamber of Watt, the locomotive of Stephenson, the cotton-mule of Roberts, perform the labour of the world. There is no department of literature, of science, or of useful art, in which they have not produced a first-rate book. It is England, whose opinion is waited for on the merit of a new invention, an improved science. And in the complications of the trade and politics of their vast empire, they have been equal to every exigency, with counsel and with conduct. Is it their luck, or is it in the chambers of their brain—it is their commercial advantage, that whatever light appears in better method or happy invention, breaks out in their race. They are a family to which a destiny attaches, and the Banshee has sworn that a male heir shall never be wanting. They have a wealth of men to fill important posts, and the vigilance of party criticism insures the selection of a competent person.

THEIR ENERGY.—"A proof of the energy of the British people, is the highly artificial construction of the whole fabric. The climate and geography I said were factitious, as if the hands of man had arranged the conditions. The same character pervades the whole kingdom.

Bacon said, "Rome was a state not subject to paradoxes"; but England subsists by antagonisms and contradictions. The foundations of its greatness are the rolling waves; and, from first to last, it is a museum of anomalies. This foggy and rainy country furnishes the world with astronomical observations. Its short rivers do not afford water-power, but the land shakes under the thunder of the mills. There is no gold mine of any importance, but there is more gold in England than in all other countries. It is too far north for the culture of the vine, but the wines of all countries are in its docks. The French Comte de Lauraguais said, "no fruit ripens in England but a baked apple"; but oranges and pineapples are as cheap in London as in the Mediterranean. The Mark-Lane Express, or the Custom House Returns bear out to the letter the vaunt of Pope,

"Let India boast her palms, nor envy we
The weeping amber, nor the spicy tree,
While, by our oaks, those precious loads are borne,
And realms commanded which those trees adorn."

THEIR DOMESTICITY.—"Domesticity is the taproot which enables the nation to branch wide and high. The motive and end of their trade and empire is to guard the indepen-

dence and privacy of their homes. Nothing so much marks their manners as the concentration of their household ties. This domesticity is carried into court and camp. Wellington governed India and Spain and his own troops, and fought battles like a good family-man, paid his debts, and, though general of an army in Spain, could not stir abroad for fear of public creditors.

They keep their old customs, costumes, and pomps, their wig and mace, sceptre and crown. The middle ages still lurk in the streets of London. . . . A hereditary tenure is natural to them. Offices, farms, trades, and traditions descend so. Their leases run for a hundred and a thousand years. Terms of service and partnership are lifelong, or are inherited. "Holdship has been with me," said Lord Eldon, "eight-and-twenty years, knows all my business and books." Antiquity of usage is sanction enough. Wordsworth says of the small freeholders of Westmorland, "Many of these humble sons of the hills had a consciousness that the land which they tilled had for more than five hundred years been possessed by men of the same name and blood." The ship-carpenter in the public yards, my lord's gardener and porter, have been there for more than a hundred years, grandfather, father, and son.

DISLIKE OF CHANGE.—"The English power resides also in their dislike of change. They have difficulty in bringing their reason to act, and on all occasions use their memory first. As soon as they have rid themselves of some grievance, and settled the better practice, they make haste to fix it as a finality, and never wish to hear of alteration more. . .

The cockneys stifle the curiosity of the foreigner on the reason of any practice, with "Lord, sir, it was always so." They hate innovation. Bacon told them, Time was the right reformer; Chatham, that "confidence was a plant of slow growth"; Canning, to "advance with the times"; and Wellington, that "habit was ten times nature." All their statesmen learn the irresistibility of the tide of custom, and have invented many fine phrases to cover this slowness of perception, and prehensility of tail.

tion, and prehensility of tail. A seashell should be the crest of England, not only because it represents a power built on the waves, but also the hard finish of the men. The Englishman is finished like a cowry or a murex. After the spire and the spines are formed, or, with the formation, a juice exudes, and a hard enamel varnishes every part. The keeping of the proprieties is as indispensable as clean linen. No merit quite countervails the want of this, whilst this sometimes stands in lieu of all. "Tis in bad taste," is the most formidable word an Englishman can pronounce.

STABILITY.—"The stability of England is the security of the modern world. . . . The English stand for liberty. The conservative, money-loving, lord-loving English are yet liberty-loving; and so freedom is safe: for they have more personal force than any other people. The nation always resists the immoral action of their government."

Many-headed and Many-nationed.—"What we must say about a nation is a superficial dealing with symptoms. We cannot go deep enough into the biography of the spirit who never throws himself entire into one hero, but delegates his energy in parts or spasms to vicious and defective individuals. But the wealth of the source is seen in the plenitude of English nature.

What variety of power and talent; what facility and plenteousness of knighthood, lordship, ladyship, royalty, loyalty; what a proud chivalry is indicated in "Collin's Peerage," through eight hundred years! What dignity resting on what reality and stoutness! What courage in

war, what sinew in labour, what cunning workmen, what inventors and engineers, what seamen and pilots, what clerks and scholars! No one man and no few men can represent them. It is a people of myriad personalities. Their many-headedness is owing to the advantageous position of the middle class, who are always the source of letters and science. Hence the vast plenty of their æsthetic production. As they are many-headed, so they are many-nationed: their colonization annexes archipelagoes and continents, and their speech seems destined to be the universal language of men. I have noted the reserve of power in the English temperament. In the island, they never let out all the length of all the reins, there is no Berserkir rage, no abandonment or ecstasy of will or intellect, like that of the Arabs in the time of Mahomet, or like that which intoxicated France in 1789. But who would see the uncoiling of that tremendous spring, the explosion of their well-husbanded forces, must follow the swarms which pouring now for two hundred years from the British islands, have sailed, and rode, and traded, and planted through all climates, mainly following the belt of empire, the temperate zones, carrying the Saxon seed, with its instinct for liberty and law, for arts and for thought—acquiring under some skies a more electric energy than the native air allows—to the conquest of the globe. Their colonial policy, obeying the necessities of a vast empire, has become liberal. Canada and Australia have been contented with substantial independence. They are expiating the wrongs of India, by benefits; first, in works for the irrigation of the peninsula, and roads and telegraphs; and secondly, in the instruction of the people, to qualify them for self-government when the British power shall be finally called home.

Pacific Type of Civilization.—The British constitution has been the model for most countries that have adopted a constitutional and democratic form of government; and being democratic and desiring peace to pursue its industrial life, Great Britain stands for a pacific as opposed to a military type of civilization. Her regular army had always been small in proportion to her population, so small indeed that at the beginning of the Great War the German Emperor referred to it as a "contemptible little army." And yet that same "contemptible" army stemmed the onrush of the Teuton hordes at Ypres, and when its numbers grew more equal no German army could stand before it.

Although Great Britain recognizes that universal service may be necessary in some countries, and at times even in every country, she has preferred, as Viscount Bryce graphically puts it, "to leave her people free to follow their civil pursuits, and had raised her army by voluntary enlistment. Military and naval officers have never, as in Germany, formed a class by themselves, have never been a political power, or exercised political influence. The Cabinet Ministers placed in charge of these two services have always been civilian statesmen—not Generals or Admirals—until the outbreak of the present war, when, for the first time, under the stress of a new emergency, a professional soldier of long experience was placed at the head of the War Department. England has repeatedly sought at European Conferences to bring about a reduction of war armaments, as well as to secure improved rules mitigating the usages of war; but has found her efforts baffled by the opposition of Germany. In none of the larger countries, except perhaps in the United States are the people so generally and sincerely attached to peace.

of the larger countries, except perhaps in the United States are the people so generally and sincerely attached to peace. It may be asked why, if this is so, does England maintain so large a navy. The question deserves an answer. Her navy is maintained for three reasons. The first is, that as her army has been very small she is obliged to protect herself by a strong home fleet from any risk of invasion. She has never forgotten the lesson of the Napoleonic wars, when it was the navy that saved her from the fate which befell so many European countries at Napoleon's hands. Were

she not to keep up this first line of defence at sea, a huge army and a huge military expenditure in time of peace would be inevitable. The second reason is that as England does not produce nearly enough food to support her population, she must draw supplies from other countries, and would be in danger of starvation if in war time she lost the command of the sea. It is, therefore, vital to her existence that she should be able to secure the unimpeded import of articles And the third reason is that England is responsible of food. for the defence of the coasts and the commerce of her colonies and other foreign possessions, such as India. These do not maintain a naval force sufficient for their defence, and the mother country is therefore compelled to have a fleet sufficient to guarantee their safety and protect their shipping. No other great State has such far-reaching liabilities, and, therefore, no other needs a navy so large as Britain must maintain. In this policy there is no warlike or aggressive spirit, no menace to other countries. It is a measure purely of defence, costly and burdensome, but borne because her own safety and that of her colonies absolutely require it. Neither has Britain used her naval strength to inflict harm on any other countries. In time of peace she has not tried to use it to injure the commerce of her chief industrial competitors. It did nothing to retard the rapid growth of the mercantile marines of Germany and Norway, both of which have been immensely developed in recent years. The freedom of the seas has, in time of peace, never been infringed by her.

FREE TRADE.—So far from using her sea-power to the prejudice of other countries in peace time, and trying by its aid to promote her own commercial interests, Britain is the only great country which has opened her doors freely to the commerce of every other country.

Sixty years ago she adopted, and has ever since consistently practised, the policy of free trade. She imposes upon imports no duties intended to protect her own agriculture or her own manufactures. She gives no advantages to her own shipping in her own ports, she pays no bounties to her own shipping, she allows even coasting trade between her own ports to be open on equal terms to the ships of all nations. A Dutch or Swedish or Norwegian vessel may trade from Newcastle to London as freely as a British vessel. And this free trade policy has been carried out consistently in all the British colonial possessions. Neither in India, nor in those British colonies whose tariffs are controlled by the mother country, are duties imposed upon foreign imports, except for the purpose of raising revenue. Such self-governing dominions as Canada and Australia have control of their own tariffs and impose what duties they please—even against the mother country; but that is a part of the self-government which these dominions have long enjoyed.

English Cottage Gardens.—England is one great garden. "We often hear this phrase," says Dr. W. Miller, "but the glory of its meaning does not burst upon an American until he has set foot upon English soil. It means that every home has its garden; that every foot of ground not occupied by buildings, is likely to be cultivated to the utmost; and that one cannot drive or ride or walk anywhere without seeing beautiful gardens."

People who have travelled more than I, say that English cottages and their gardens are the most beautiful in the world. I saw thousands of them and they were endlessly delightful. . . .

The American is used to seeing ugliness everywhere—wooden buildings, no national style of architecture, bill-boards, big advertisements, and houses without gardens. When he goes to England he sees beauty everywhere—houses built of brick and stone, a national style of architec-

¹Viscount Kitchener of Khartum.

¹Rt. Hon. Viscount Bryce, in "The War of Democracy" (1917).

ture, no billboards, shop signs relatively small and modest, and every foot of ground cultivated to the utmost. These general conditions are enough to put the American in an enthusiastic mood, and enthusiasm rises to ecstasy when he finds that even the labouring people live amid beautiful sur-roundings. Every cottage is built of permanent materials and every cottage is surrounded by fruits, flowers, or other forms of living beauty. It all seems too good to be true, because American labourers generally live in big tenements or else in monotonous rows of wooden cottages, which are temporary and subject to disastrous fires, while the yards are usually bare and shabby or foul with weeds and rubbish. Therefore, I say the infinite number and variety of English cottage gardens is enough to explain five tenths of the American tourist's enthusiasm.

The second great reason why we cannot copy English. cottage gardens is that about four tenths of their charm is due to the cottages themselves and these do not fit our present mode of life at all. . . . Old cottages in England are always either beautiful or picturesque, but on the practical side they are invariably deficient.

For instance, thatched roofs are dreams of beauty, and once upon a time they were economical in England; but in America they cost too much, and even in England it is against the law in some districts to thatch new cottages. Small window panes are poetic, but hard to clean. Rambling structures may be lovable, but they multiply steps and waste a woman's strength. Crooked stairs may be romantic, but they are dangerous. High roofs mean a waste of room.

The English cottage which nestles so sweetly among the

ever-blooming roses was developed before people knew anything about germs and before the importance of ventilation

and sunlight was understood. .

To make exact copies of English cottages is foolish, and we shall never have charming cottage gardens in America until we have charming cottages in an American

style....

It is my conviction that nine tenths of the charm of English cottage gardens is due to the environment; only one tenth seems to me intrinsic. The gardens themselves owe their beauty to two elements—the materials, or plants, and the national style of gardening.1

Horse-racing.—In a land where the breeding of horses is carried to such a high pitch of perfection, racing is regarded as a practical necessity, and is the only way of ascertaining how animals may be most judiciously employed for breeding purposes. Horse-racing, "the national sport," has greatly increased in popularity in the British Isles. Of the five "classic" races run each season of three-year olds, the chief one is the Derby which is held at Epsom during the week which includes May 31st.

The Derby.-An excellent picture of the Derby is presented by Richard Harding Davis in "Our English Cousins."

In a country given to spectacular exhibitions-Wimbledons, jubilee processions, boat-races, naval reviews—the Derby strikes one as quite the most remarkable thing of this sort that the English do, and they do them all particularly well. In no other country, I believe, do sixty thousand people travel sixteen miles to camp out around a race-track, and then break up camp and march back again the same

night.

As a matter of fact, they do not all march back the same The gypsies and the fakirs, and hundreds of others around the training-stables (for the racing at Epsom Downs lasts a week), remain overnight, and this encampment, with the fires burning in the open air and the lights showing from under the canvas, makes as weird and wonderful a scene as that of the Derby day itself. But in the morning this sleeping bivouac rouses itself, and the tents go up as easily as umbrellas, and an army of people crowd the track and the grounds as thickly as the City Hall Square is crowded on the night of a Presidential election. The coaches face the

Wilhelm Miller, "What England Can Teach Us About Gardening" (1913).

grandstand from the opposite side of the track. They are packed as closely together as the omnibuses in front of the Bank of England, so that one could walk for half a mile from one to the other of them without once touching the ground. The first which come of these take the best places, and the last are crowded in on them by the servants and the unemployed, who take out the leaders and shove with the wheelers until they have locked wheels with two other coaches, and have apparently entangled themselves forever. These coaches form a barrier three rows deep along the course, and the dresses of the women on top of them, and the luncheons, before their pyramids are demolished, make the place look like a succession of picnics in mid-air.

Back of these, down the valley between the curves of the horseshoe, are tents and the rings where wooden horses circle and prance, and railroad cars which mock the laws of gravity, dashing up and down wooden hills, and where there are shooting-galleries and boxing-booths and swings, and rows after rows of gypsy wagons (little green and red houses on wheels, with a pair of steps at the back like a bathing-machine), and solid phalanxes of shouting book-makers. These last stand in couples, dressed ridiculously alike, as a guarantee that they do not intend to lose themselves in the crowd, and with banners behind them to tell who they may be, from whence they come, and what a very old and trust-

worthy firm theirs is. . . .

You see so much to entertain you on the grounds that you forget about the races, although the sight from the coach is in its broader view, quite as amusing and impressive as the one you obtain by pushing through the crowd. Instead of moving about to see other people the other people come to call on you, chiefly musicians of several nationalities who sing sentimental songs sentimentally to the young women on the next drag, who try to pretend they do not know that they are being made to look ridiculous; and little yellowhaired girls on stilts, who seat themselves on the box, and draw their stilts up out of the way and sing: "I'm er blushin' bud of innercence, papa says I'm a great expense," and troops of burntcork comedians who pretend they know the people on the coaches, and who flatter the weak in spirit by crying: "Ahh! glad to see your lordship 'ere to-doiy. I 'ain't forgot the 'arf-crown your lordship give me when your lordship won that pot of money of King Remus, Kemton Park Waiy. Your lordship allus wos a good one at pickin' a winner. Now, wot can we sing at yer lordship's command ter-day? At which his lordship, being a real-estate agent from Chicago,

is extremely pleased, and commands his favourite melody.

There are a great many Americans at the Derby. It is something of which they have all heard and in consequence

want to see.

The races at the Derby are very beautiful examples of how grand a spectacle a horse-race can be. . . . What first puzzles one at the Derby is where the horses are going to find room to run, for the track is blocked with the mob, which stands doubtfully fingering the sixpences in its pockets, and listening to the young men who are selling tips on the race to follow, and beseeching the crowd about them to remember what they foretold at the Manchester races a year ago.

Mixed with these young men are evangelists with an organ on wheels, to the accompaniment of which they sing hymns. They are not the Salvationists, though one sees the red jerseys of these also, but soberly clothed, earnestlooking men, perfectly impassive to the incongruity of their surroundings, and fervent in their hope of accomplishing some good. They have as large a circle about them as has the tipster, and they are too familiar a sight wherever many people are gathered together in England to be either scoffed at or encouraged. But when the bell rings, all of these—tipster, evangelist, and coloured comedian—fly before the important business of the moment, and there is a rush to the rails, which men clutch desperately like wrecked mariners on a mast-head, and a sudden overflow among the carriages as the mounted police ride slowly along the length of the track, leaving a clear, broad, green road behind them.

And then the horses canter up the course, and come back again with a rush of colours and straining necks amid what is almost, for so large a multitude, complete silence. Englishmen do not make themselves heard as does a racing crowd in America. The most interesting effect in the race to one who is looking up the track, and who is not interested in the finish, is what seems to be a second race, as the crowd breaks in after the last of the horses and sweeps down the track, making it appear shortened behind as the horses move forward.

YORKSHIRE.—The largest county in England, the shire which according to the native boast "contains more acres than there are letters in the Bible," has ever held an important place in the history of the country. Its agriculture can be traced back to the neolithic age. In the breeding of sheep, cattle, and horses, Yorkshire has long been famous. Its horses especially, from the fleetest race-horse to the mighty shire horse, are the Yorkshireman's pride.

The foundation stone of the great modern fabric of industry, enterprise, and wealth which has been reared in Yorkshire was undoubtedly the application of steam power to the manufactures of the county. Some idea of the remarkable development of the great Yorkshire towns during the nineteenth century may be gained from statistics. The population of Leeds in 1801 was 53,612; in 1901, 428,968. In the same period Sheffield increased from 45,755 to 380,793, Hull from about 30,000 to 240,259. Between 1831 and 1901 the population of Bradford increased from 43,527 to 279,767. But most marvellous of all is Middlesbrough, a town whose entire population was housed under one roof in 1820 and now includes 60 miles of streets and has a population of 104,767.

Perhaps the most characteristic of the Yorkshire industries is that which gives employment to the great bulk of the crowded populations of the West Riding, and may be classed under one comprehensive term—the making of clothes. All the great towns of the West Riding are engaged in the spinning and manufacturing of silk, linen, cotton, and wool. Woollen goods and worsted goods are the chief objects of manufacture, and have their own particular homes and centres. When a Yorkshireman speaks of 'Leeds goods' he means all kinds of goods of the woollen industry; when he speaks of "Bradford," he means worsted goods. All the other towns and districts have some specialty—the towns of the Spen Valley, Batley, Dewsbury, Cleckheaton, and their smaller neighbours produce clothing from reworked material, and place it on the market under the names of Shoddy and Mungo; Wakefield turns out yarns and medium woollens and worsteds; Huddersfield worsteds and woollens of superfine quality; Halifax produces worsted yarns, a variety of ornamental fabrics, and has also a great trade in carpets. Some of the manufactories—'mills' as they are called in the textile-producing districts—are of vast size. . . . In the twilight of autumn and winter or in the early winter mornings their lights are seen across the hills for mile upon mile, producing an effect which—save in Lancashire—can-not be seen elsewhere in England.¹

A LEEDS MILL.—The mills of Leeds are its crowning modern interest. A visit to one of the largest flax mills is thus described:

It is in the part of Leeds called Holbeck, and is a massive building in the Egyptian style, covering an area of two acres. The work is carried on in one huge room, which a partition divides into two, and when our guide took us in the effect was electrifying. Each frame and each worker standing before it seemed a part of one immense machine which would go on in the same perfect precision and cleanliness foreverthe workers silent as the grave—while the resistless chorus of whirrs seemed to fill every chink in the vast place. This vast chamber contains no less than sixty-six skylights for the admission of air and light. A series of arches rests on cast-iron pillars, and the air and light thus obtained obviate all the stuffiness of atmosphere one associates with the idea of a mill; the women look healthy and happy, never leaving off work, but seeming to follow it with interest as well as industry. Our guide explained to us in a very lucid way the process through which the flax passes from its pristine state to the finest sewing thread, and he illustrated his explanation by taking us from frame to frame and showing us how the flax—guided by the women's skilful fingers, and moved by the resistless force of the huge steam engine which, like some Hydra, seems omnipresent in the vast chamber—not only gradually becomes soft and fine like flour passing through different mills, but—as it also passes through chemical preparations, it goes through many grades of colour and is finally bleached to snowy whiteness.

In another huge room we found the weavers creating out of the prepared flax coarse towelling, blinds of varied stripes and patterns, every imaginable sort of linen fabric from coarse to the finest. It was very interesting to watch the manufacture of the striped goods, to see the regular dexterity needed in placing the required portions, and in all cases the flight of the little shuttle from side to side bearing the weft across and between the strands of warp. So interesting was it that, spite of the deafening noise which seemed to set all one's nerves loose at once, we were unwilling to leave off looking.1

THE COLLIER.—Though so small a country, Great Britain is the greatest coal-producing country in the world. Its "black diamonds" are the mainstay of its commerce and of its naval supremacy.

While enumerating the coal riches of England, the poor collier himself, driving his dismal work down under the ruins of a former world, exposed to perpetual peril from mephitic vapours and crumbling walls, dangling upon a slender rope, or crawling up shafts like interminable chimneys, upon ladders that will rot, should not be forgotten. There is stout man-hood under his dirt-crusted brutality. He says he "wins" the coal. He does indeed win it. He never descends into the coal-pit but with the chances immensely augmented that he will never see another sun. It is computed that fifteen hundred lives are annually lost in England by accidents in coal mines. The most dreadful of these enemies is the "fire-damp," whose chief ingredient is carburetted hydrogen, which, with a certain mixture of common air, becomes explosive. In mines where the ventilation is imperfect, a single act of carelessness will fill miles upon miles of subterranean chambers with a streaming blaze of fire, sometimes rising to the surface and bursting out of the shafts with the roar and violence of a volcano. And the poor miners, it is said, will carry their pipes, though forbidden, into the long and distant reaches of the mine—whence this continual danger. When we sit down before a genial winter fire, let us think of those bold hearts who have 'won' the coal for us.2

FLINT MINING EXTRAORDINARY.—That the methods of prehistoric days still survive in certain callings may be realized by visiting one of the curious flint mines on the borders of Suffolk. The neolithic miner used a red-deer's antler for a pick. His lamp was a cup of chalk. His ladder was probably a series of rough steps cut in the sides of the

A family of the name of Dyer carry on to-day exactly the same old method of mining. Their pits are of squarer shape than the neolithic ones, but otherwise similar. Their one-pronged pick retains the shape of the deer's antler. Their light is a candle stuck in a cup of chalk. And the ladder is just a series of ledges or, as they call them, "toes"

¹J. S Fletcher, "A Book About Yorkshire" (1908).

¹Thomas and Katherine Macquoid, "About Yorkshire" (1883). ²James M. Hoppin, "Old England" (1890).

in the wall, five feet apart and connected by footholes. The miner simply jerks his load, several hundredweight of flints, from ledge to ledge by the aid of his head, which he protects with something that neolithic man was probably without, namely, an old bowler hat. He even talks a language of his own. "Bubber-hutching on the sosh" is the term for sinking a pit on the slant, and, for all we can tell, may have a very ancient pedigree. And what becomes of the miner's output? It is sold by the 'jag'—a jag being a pile just so high that when you stand on any side you can see the bottom flint on the other—to the knappers of Brandon. Any one of these will, while you wait, break up a lump with a short round hammer into manageable pieces. Then, placing a "quarter" with his left hand on the leather pad that covers his knee, he will, with an oblong hammer, strike off flake after flake, perhaps 1,500 in a morning; and finally will work these up into sharp-edged squares to serve as gun-flints for the trade with native Africa. Alas! the palmy days of knapping gun-flints for the British Army will never return to Brandon. Still, there must have been trade depression in those parts at any time from the bronze age up to the times of Brown Bess; for the strike-a-lights, still to be got at a penny each, can have barely kept the wolf from the door.

Thus there are things in old England that are older even than some of our friends wot. In that one county of Suffolk, for instance, the good flint—so rich in colour as it is, and so responsive to the hammer, at any rate, if you get down to the lower layers or "sases," for instance, the floorstone, or the black smooth stone that is generally below water-level—has served the needs of all the palæolithic periods, and of the neolithic age as well, and likewise of the modern Englishmen who fought with flintlocks at Waterloo, or still more recently took out tinder-boxes with them to the war in South Africa. And what does this stand for in terms of the antiquity of man? Thousands of years? We do not know exactly; but say rather hundreds of thousands of years.¹

London.—London is the wealthiest and, until it was recently outstripped by New York, the most populous city in the world. It stands in four counties—Middlesex, Surrey, Kent, and Essex. It is a province of houses, a forest of human beings. It is a cluster of manufacturing towns, a great agricultural market, the central city of commerce for the entire globe, the financial capital of the commercial world, the legal capital of England, and a great pleasure city besides. The saying was once common that "all roads lead to Rome." To-day all the waterways of the world lead to London.

The metropolis is an "ocean of bricks and mortar." Its houses, if placed end to end, would stretch across Europe and Asia. One of the ugliest cities in the world, it is at the same time one of the most beautiful. The squalor of its slums is indescribable; its river and park scenes are among the finest in Europe. London contains more Scotchmen than Edinburgh, and more Irishmen than Dublin.

The importance of London is not a local importance, like the importance of Manchester and Liverpool or Leeds and Hull. London became the capital of England, because, among the great cities of England, it was at once the greatest and, in a certain sense, the most central; perhaps we may add that London earned its place by gallant resistance to the Scandinavian invader. But the modern importance of London is wholly that of a capital, not that of a local city. The importance of Liverpool and Manchester is the importance of Liverpool and Manchester in themselves; the importance of London is not the importance of London in itself; it is the importance of the place which is the seat of the common government of the whole land, the centre and meeting-place of people from every part of the whole land.

In that vast range of buildings which is popularly called "London" and vulgarly called the "metropolis," there is, unless haply within that ancient and illustrious city round which that range of buildings has grown, no real local love for the place itself. People who cannot live save in London, who despise everything out of London, who unconsciously fancy that London is the whole world, have not the same local patriotism for London which a man of one of our great towns has for his own town. It is not London as London, it is the capital of England and of the British dominions, which your man who cannot live out of London really cherishes.¹

London Railway Stations.—The railways of Britain all converge on London, and there is no place too remote to be, more or less, in direct communication with the capital. No less than eleven great railway systems have their termini in London, with magnificent stations and enormous freight yards.

In all there are 251 railway-stations and twenty-two railway companies which serve London, and yet it is curious to note that not one station is called London. Of the vast traffic carried on by these lines, and of the perfect network of lines which they have made, it is almost needless to speak, for they are known to every Londoner. The special features of the London railway system are the luxurious travelling to the north or to Paris and abroad; the daily runs to Brighton and other seaside resorts, where London merchants have their homes. . . . The various excursions to the sea and other country places; the consignments of food, from the daily early morning milk in millions of gallons to the occasional tons of water-cress, at Waterloo Station, up from Hampshire, and live turtles for aldermanic banquets; the constant daily influx of business men and women in the morning, and their return in the evening—all the curiosities of travelling, in fact, make the London railway-stations marvellous indications of London life.²

EDINBURGH.—Edinburgh, the capital of Scotland, is one of the most beautiful cities in the world. It is picturesquely situated on three eminences which run in a direction from east to west, and is surrounded by lofty hills except on the north side where the ground slopes gently toward the Firth of Forth.

Meditative people will find a charm in a certain consonancy between the aspect of the city and its old and stirring history. Few places, if any, offer a more barbaric display of contrasts to the eye. In the very midst stands one of the most satisfactory crags in nature—a Bass Rock upon dry land, rooted in a garden, shaken by passing trains, carrying a crown of battlements and turrets, and describing its warlike shadow over the liveliest and brightest thoroughfare of the new town. From their smoky beehives, ten stories high, the unwashed look down upon the open squares and gardens of the wealthy; and gay people sunning themselves along Princes Street, with its mile of commercial palaces all beflagged upon some great occasion, see, across a gardened valley set with statues, the washings of the old town flutter in the breeze at its high windows. And then, upon all sides, what a clashing of architecture! In this one valley, where the life of the town goes most busily forward, there may be seen, shown one above and behind another by the accidents of the ground, buildings in almost every style upon the globe. Egyptian and Greek temples, Venetian palaces and Gothic spires, are huddled one over another in a most admired disorder; while, above all, the brute mass of the Castle and the summit of Arthur's Seat look down upon these imitations with a becoming dignity, as the works of Nature may look down upon the monuments of Art.3

¹Edward A. Freeman, "English Towns and Districts" (1883).

 ^{*}G. Laurence Gomme, "London in the Reign of Victoria" (1898).
 *Robert Louis Stevenson, "An Inland Voyage Travel with a Donkey" (1897)

¹R. R. Marett, Anthropology" (1911).

GLASGOW AND THE CLYDE.—"Glasgow made the Clyde and the Clyde made Glasgow." The epigram, though not wholly true, will serve to indicate the transformation that has taken place. A century and a half ago Glasgow seemed as liable to become a seaport as Stirling or Dumfries. Vessels could not approach within fourteen miles, and discharged their cargoes into flat-bottomed boats which took them to Glasgow. To-day the Clyde is a deep canalized river, bearing from the building yards in the upper reaches the world's greatest liners and battleships.

Glasgow is the maker of ships, and her sons are proud of their seemly product. The Clyde builder may pride himself, too, on his achievement. Following no man, he hewed out a path for himself; borrowed no capital, but at his own door dug coal and iron and wrought up these into that modern wonder, the steamship. . . . Now and then, it is true, he had the wit to use the ideas of other men, to weld their inventions to his own purposes and to profit by their errors. But take him for all in all, he is the figure which dominates modern shipbuilding, the inspirer and pioneer to whom all other builders must bow, and without whom the glorious company of ships had shrunken to a half. The teachers of youth are very right; of more moment to Glasgow than her other industries, her college, her cathedral, is

the building of her ships. . . .

It is the distinction of the Clyde shipyards that they can

The control from a trawler to a battleship. The build any kind of vessel from a trawler to a battleship. builders have the skill and experience, and the yards have the appliances which are required for any type of war vessel, trading vessel, or pleasure craft. Elsewhere you may find—but not often—that in a given year more ships of a certain class were built than on the Clyde. Belfast and Stettin, for instance, are at the moment undoubtedly ahead of the Clyde in building great passenger steamers; but it is only here that you see every kind and manner of ship on the

stocks.1

"It is doubtful," says John Burroughs, "if such a scene can be witnessed anywhere else in the world—an enormous collection of machinery, commerce, and building, in the midst of the quiet and simple life of inland farm lands. You could leap from the deck of a half-finished ocean steamer into a field of waving wheat or broad beans.

"These vast shipyards are set down here upon the banks of the Clyde so as to interfere as little as possible with the scene. One would say the vessels had come up out of the water like seals to sun themselves here on the grassy

bank.
"Of the factories and foundries that put the iron in shape, you get no hint; here the ships rise as if they sprouted from the soil, without waste or litter, but with an unceasing din. They stand as thickly as a row of cattle, almost touching each other, and in all stages of progress. Now and then a stall will be vacant, the ship having just been launched; others will stand with flags flying and timbers greased or soaped, ready to take to the water at the word. Two such, soaped, ready to take to the water at the word.

both large ocean steamers, waited for us to pass.

"We looked back, saw the last block or wedge knocked away from one of them, and the monster ship sauntered down to the water, and glided into the current in the most gentle matter-of-fact sort of way. I wondered at her slow pace and the grace with which she took to the water. The vessels are launched up and down the stream, owing to the narrowness of the channel. But to see such a brood of ships, the largest in the world, hatched upon the banks of such a quiet little river, amid such peaceful country scenes, is a new experience. This, then, is Britain; a little island, with little lakes, little rivers, quiet fields, but mighty interests and power that reach round the world."²

HIGHLAND DRESS.—The highland costume, in which every Highlander loves to disport himself, is modern in many of its features, and especially so in the great variety of tartans

¹James Hamilton Muir, "Glasgow in 1901" (1901). ²John Burroughs, "Fresh Fields" (1881).

or checks that have been invented, and of which each clan now appears to claim one.

There was a time when Stewart or Murray looked on the plaid as badge of a savage foeman; there would be a time when the imported Highlanders grew as proud of kilt and bagpipes as if these had come down to them straight from Adam. All over the world have gone those badges of a race that gave them to its conquerors in exchange for its proudest blood. The cult of the tartan, revived in our own age by romantic literature and royal patronage, is an old story. One of the early emigrants to the Southern States of America is said to have rigged out all his negroes in kilts and such-like, teaching them also to speak Gaelic and to pipe and reel among cotton fields and cane swamps. But when one of those blackamoor retainers, liveried in a kilt, was sent to meet a practically-minded countryman landing from Scotland, the effect of so transmogrified a figure proved appalling. 'Hae ye been long oot?" stammered the newcomer, and took his passage back by the next ship.

Away from Scotland, all true Scots carry over the world

an outfit of which the colours, the trimmings, and the gew-gaws come from the Highlands, while the hard-wearing qualities of the stuff are rather of Lowland manufacture.1

It has appeared to some surprising that the Highlanders should be able, from the scanty materials which their country afforded, to produce such brilliancy of colouring. In those days, good housewives distinguished themselves not only by the superior quality of cloth they produced—for all was home-made-but also by the brightness and variety of their colours. From the descendants of one thus distinguished I had the whole secret; and a simple one it was, both as to the process and material of dyeing.

Black was produced from aurn; green and yellow from heather, the green being first dyed blue with indigo. From "white crottle," a species of lichen, a beautiful crimson was produced. The "crottle" or lichen producing this colour had to be kept in soak for at least a twelve-month before use. more common red was produced from madder; brown from "rough crottle," another species of lichen: the fixing matter for all these colours being of the most primitive nature.²

A WHIFF OF IRELAND.—"The first whiff we got of nature on the east side of the Atlantic," writes John Burroughs, "was the peaty breath of the peasant chimneys of Ireland while we were yet many miles at sea. What a homelike fireside smell it was; it seemed to remind me of a home long forgotten. This odour of the Old World, wafted to us on our approach from the New, savours of the soil. I know no other fuel that yields so agreeable a perfume."3

An Irish Bog.—"We all know what a bog is—when we get into one; but if asked to define it, we should perhaps differ. The tour st would describe it as a great eyesore; the sportsman, as a capital place for wild fowl; the peasant, as a useful place for supplying fuel; the engineer, as a thing which must be got round, or over, or rid of, if possible.

None of these answers would give much idea of the real nature of a bog. In England bogs are few and far between; but nobody who has travelled in Ireland can forget the desolate flats and surfaces that extend for so many miles inland—a perfect sea of black peat, without a single shrub or mound or any token of life, save here and there a cabin, almost more dull and sad than the bog itself. .

Bog consists chiefly of a kind of moss known as sphagnum, together with many sorts of grass, fern, and heath, which, under pressure, becomes peat. It is easy to see how the growth of a flat bog has arisen. A pool is formed, more or less stagnant, round the borders of which grow water plants, in course of time filling up the surface, and then the deeper parts, by the mud around their roots. This mud is

A. R. Hope Moncrieff, "The Heart of Scotland" (1909).

²Elizabeth Taylor, "The Braemar Highlands" (1896).
^aJohn Burroughs, "Fresh Fields" (1881).

just the place for sphagnum, which flourishes, pushing out new plants while the lower stages become rotten. Sometimes the pulpy mass fills to overflowing, as in King's County in 1821, when a bog burst its bounds and flowed down into a valley for a mile and a half, covering 150 acres with a layer of bog from six to ten feet in thickness.

Bogs are not all alike. Bog country may be divided into red, brown, black, and mountain bog. In Ireland there are about a million and a half of acres of red and black bog, and a million and a quarter of mountain bog. The red and brown are of least value for fuel; they are very wet, and contain a small amount of woody matter. Mountain bog, instead of sphagnum, contains gray moss, which is supplied with moisture by the damp air and clouds of the mountains.

When the peat is cut the whole population goes off to the bog . . . the men cut the peat with long spades, the women stack it in heaps to dry. The heat-giving power of turf is about half that of coal.

IRELAND FIFTY YEARS AGO.—Glancing at the condition of Ireland fifty years ago, an Irish writer² says:

At that time almost the whole agricultural population were in the position of tenants-at-will, with no security either against increased rents or arbitrary eviction. The housing of the rural population, and especially of the agricultural labourers, was wretched in the extreme. Local taxation and administration were wholly in the hands of Grand Juries, bodies appointed by the Crown from among the country gentlemen in each district. Irish Roman Catholics were without any system of University education comparable to that which Protestants had enjoyed for three hundred years in the University of Dublin. A Church which, whatever its historic claims may have been, numbered only about 12 per cent of the population was established by law and supported by tithes levied on the whole country. Technical education was inaccessible to the great bulk of the nation; and in no department of public education, of any grade or by whomsoever administered, was any attention paid to Irish history, the Irish language, Irish literature, or any subject which might lead young Irishmen to better knowledge and understanding of the special problems of their country and its special claims to the love and respect of its children.

That was the Ireland of fifty years ago. It is an Ireland which at the present day lives only on the lips of anti-British orators and journalists. It is an Ireland as dead as the France of Louis XIV. Of the abuses and disabilities just recounted not one survives to-day.

LAND REFORM.—Ireland, owing to the wars and confiscations of the seventeenth century, had come to have a landowning aristocracy mainly of English descent with a Celtic peasantry holding their farms as yearly tenants. The object of British land-legislation has been to expropriate the landlords so far as their tenanted land is concerned, and to establish the Irish peasant as absolute owner of the land he tills.

The Irish tenant is now subject only to rents fixed by law; he can at any time sell the interest in his farm, which he has, therefore, a direct interest in improving; he is also assisted by a great scheme of land-purchase to become owner of his land on paying the price by terminable instalments, which are usually some 20 per cent. less than the amount he formerly paid as rent. Under this scheme about two-thirds of the Irish tenantry have already become owners of their farms, while the remainder enjoy a tenure which is almost as easy and secure as ownership itself. It is not surprising then, that a German economist who has made a special study of this subject should declare that "the Irish tenants have had conditions assured to them more favourable than any other tenantry in the world enjoy" adding the dry comment that in Ireland the "magic of property" appears to consist in the fact that it is cheaper to acquire

it than not.1 That magic has been worked for Ireland by the British Legislature and by British credit. . State is now pledged to about £130,000,000 for the furtherance of this scheme, the instalments and sinking fund to the amount of about £5,000,000 a year being paid with exemplary regularity by the farmers who have taken advantage

AID FOR WESTERN IRELAND.—In the more backward regions of western Ireland it has been felt that the above measures are not enough, and a special agency known as the Congested Districts Board has been constituted with wide powers to help the Western farmer, and not only the farmer, but the fisherman, the weaver, or any one pursuing a productive occupation there, to make the most of his resources and to develop his industry in the best possible way. A system of light railways which now covers these remote districts has given valuable facilities for the marketing of fish and every kind of produce. The various Boards and other executive agencies consist almost entirely of Irishmen.

IRISH AGRICULTURAL LABOURER.—There is a vast difference between the present lot of the Irish agricultural labourer and his condition in 1883, when reform in this department was first taken in hand. Cottages can now be provided by the Rural District Councils and let at nominal rents. Nearly £9,000,000 sterling have been voted for this purpose at low interest. A recent observer writes:

The Irish agricultural labourer can now obtain a cottage with three rooms, a piggery, and garden allotment of an acre or half an acre, and for this he is charged a rent of one to two shillings a week. . . . These cottages by the wayside give a hopeful aspect to the country . . . flowers are before the doors of the new cottages and creepers upon the walls. The labourer can keep pigs, poultry, and a goat, and grow his potatoes and vegetables in his garden allotment.³

PRESENT CONDITION OF IRELAND.—The internal condition of Ireland already shows a marked response to the altered state of things. It is visible, as many American travellers have noticed, in the face of the country, and is proved by official records.

Emigration has declined to its lowest point; education has spread amongst the people. Irish emigrants, when they do leave their own shores, take higher positions than ever before. A population of some 4,000,000 largely composed of small farmers, has lent £47,000,000 sterling to the Government; and, what is still more significant, the deposits in Post Office Savings Banks have risen from £6,000,000 in 1896 to over £13,000,000 the year before the

Irish agriculture, partly owing to climatic conditions, and partly to the fact that Ireland has a monopoly of the export of live cattle to England, had developed hitherto rather in the direction of cattle-raising than of tillage; and cattle have increased since 1851 from 3,000,000 to over 5,000,000 head, and sheep from 2,000,000 to 3,600,000. Poultry have nearly quadrupled in the same period. The gross railway receipts—another significant symptom—were £2,750,000 in 1886. In 1915 they had risen to £4,831,000. The cooperative agricultural associations, in which Ireland has shown the way to the English-speaking world, now number about 1,000, and do a trade of well over £5,000,000 a year. The thousands of labourers' cottages which have sprung up, each with its plot of land, have been to the Irish labourers what the Land Acts have been to the farmer they have completely transformed his economic status in the country.4

¹Prof. M. Bonn, of Munich University. "Modern Ireland and Her Agrarian Problem," translated from Die irische Agrarfrage. ^aT. W. Rolleston, "Ireland and Poland—A Comparison" (1917). ^aPadraic Colum, "My Irish Year" (1909).

T. W. Rolleston, "Ireland and Poland-A Comparison (1917).

IG. P. Bevan.

²T. W. Rolleston, "Ireland and Poland-A Comparison" (1917).

SYNOPSIS OF THE UNITED KINGDOM

(See Map, p. 33)

The United Kingdom of Great Britain and Ireland consists of the kingdom of England, the principality of Wales, the kingdom of Scotland, and the kingdom of Ireland.

The crowns of England and Scotland were united in 1603; the parliaments in 1707. The parliaments of Ireland and Great Britain were united January 1, 1801, when the Legislative Union went into effect.

The island of Great Britain consists of England, Wales, and Scotland; it is

The island of Great Britain consists of England, Wales, and Scotland; it is 600 miles long and has an area of nearly 90,000 square miles. Great Britain is the largest island in Europe.

Ireland has an area of 32,360 square miles, and is about one-third the size of Great Britain. The two islands are separated by the Irish Sea.

Besides the two largest islands, the British Isles consist of about 500 small islands. The British Isles are really outstanding parts of a submarine plateau. which is a continuation of the European continent. At some remote time, the British Isles formed part of the Continent. The North Sea on the east of Great Britain is so shallow that if St. Paul's Cathedral, which is 370 feet high, was set down in the middle of it, nearly half of the edifice would stand clear out of the water.

Boundaries.—The United Kingdom is bounded on the east by the North Sea; on the southeast by the Strait of Dover (21 miles wide), separating England from France; on the south by the English Channel; and on the southwest, west, and north by the Atlantic.

England from France; on the south by the English Channel; and on the southwest, west, and north by the Atlantic.

Ireland is separated from Great Britain by St. George's Channel, the Irish Sea, and the North Channel (13 miles wide).

CGAST LINE.—The coast, especially on the west, is much indented. The coast line of Scotland is so irregular that its length is about 2,500 miles, or 500 miles more than that of England, though the country itself is so much smaller. Ireland is more regular in form than Scotland, and its coast line is about the same as that of England. The British Isles contain many good barbours.

MOUNTAINS.—The mountains of Great Britain lie mostly in the west and north. In England the Pennine Range runs from the centre almost to the Cheviots in the north, the latter forming a natural boundary between England and Scotland. West of the Pennines is a circular range of hills in Cumberland with the highest point in England, Scafell (3,210 feet).

Wales is principally highlands, the Cambrian Mountains running from the southwest to northeast, their highest points being Snowdon (3,570 feet), and Plynlymmon (2,469 feet); in South Wales are the Black Mountains (Brecknock Reacon, 2,010 feet).

(Brecknock Beacon, 2,910 feet).

Scotland contains two groups of highlands in the north and centre, the Northern Highlands and the Grampians. The latter provide in Ben Nevis (4,406 feet) and Ben Muich Dhui (4,296 feet) the highest points in Scotland and the United Kingdom. Between the Grampians and the Cheviots are the lowlands of Scotland, in which its capital (Edinburgh) and largest city (Glasgow) are situated (Glasgow) are situated.

(Glasgow) are situated.

Ireland contains many isolated hills around its coasts, with a great plain in the centre from 50 to 350 feet above sea-level. The highest points in Ireland are Carrantuohill (3,414 feet) and Beenkeragh (3,314 feet), in the Macgillicuddy Reeks of Kerry; Galtymore (3,015 feet); and Muilrea (2,688

Macgillicuddy Reeks of Kerry; Galtymore (3,015 feet); and Muilrea (2,688 feet), in Mayo.

RIVERS.—The rivers of England and Scotland, owing to the general elevation of the west and the low-lying plains of the east, flow mainly into the North Sea. The principal rivers of England are the Thames (210 miles), which flows through Oxford, Windsor, and London; the Great Ouse (160 miles); the Trent (170 miles), which flows through Burton and Nottingham to form the Humber upon which is situated Hull; the Tyne on which stands Newcastle; and in the west of England the Severn (180 miles) and the Mersey (70 miles). The Mersey is important as the waterway of Liverpool, and is connected with Manchester by a ship canal.

The principal rivers of Scotland are the Clyde (90 miles), flowing west by Glasgow to the Firth of Clyde; the Forth (60 miles); the Tweed (96 miles), which forms a boundary of England and Scotland at Berwick; the Tay (120 miles); and the Dee (70 miles), on which is situated Aberdeen.

miles); and the Dee (70 miles), on which is situated Aberdeen.

In Ireland are the Shannon (225 miles) the largest river in the British Isles; the Erne, Foyle, Bann, Liffey, on which stands Dublin, the Boyne, near which the Battle of the Boyne was fought in 1690, the Slaney, Barrow, Plackert and the Live

near which the Battle of the Boyne was fought in 1690, the Slaney, Barrow, Blackwater, and the Lee.

Lakes.—The lake district of England, mainly in Cumberland but partly in Westmorland and Lancashire, contains a circle of picturesque lakes, of which Windermere (10 miles long), Ullswater, and Derwentwater are the largest. Wales has but one large lake in Bala Water (4 miles long). Scotland, particularly in the Highlands, abounds in lakes, of which the largest is Loch Lomond (24 miles), the largest in Britain. Ireland contains the largest lake in the United Kingdom in Lough Neagh (area 183 square miles), and is interspersed with lakes in the north and west. In the highlands of Kerry are the famous lakes of Killarney.

CLIMATE.—The climate of the British Isles is influenced by the prevailing southwest winds and by the existence of the Gulf Stream. The prevailing southwest winds and by the existence of the Gulf of Mexico divides at the southwest extremity of Ireland and at Land's End (Cornwall), the former current skirting the north of Scotland, and reuniting with the southern arm in the North Sea. The climate of the British Isles is thus warm and more equable than that of other lands between the same parallels, and its harbours are free from ice all the year round.

London has a meant-temperature in January of 39.3° F., and in July 62.7° F. Dublin has 41.2° and 57.2° F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20 F. Ediphyrok as 20.20

London has a mean temperature in January of 39.3° F., and in July 62.7° F. Dublin has 41.2° and 57.2° F., Edinburgh 37.7° and 57.2° F. Falmouth, on the south coast, has a mean temperature of 44.6° F. in January, and 59.4° F. in July. See Climate Map of Europe, pp. 24, 25.

ENGLAND AND WALES

(See Map, p. 34)

NATURAL PRODUCTIONS.—(1) AGRICULTURE. "In no other country in the world," says Dr. Carl Zehden, "is the soil so thoroughly and so generally utilized; the whole land looks like a well-cultivated garden. And in no other country is the productiveness of the land so stimulated by scientific means, such as drainage, irrigation, the use of artificial fertilizers and agricultural machinery. The chief reasons for this advanced state of agriculture are to be looked for in the smallness of the farms and the high prices commanded by farm produce." In England the area under cultivation is estimated at three-quarters of the whole; in Wales at more than one-half. The grain crops are grown chiefly in the eastern and southeastern parts of England. The chief crops are wheal, oats, barley, beans, peas, potatoes, turnips, hops (in Kent, Surrey, Worcester, and Hereford), apples and pears (chiefly in Hereford, Worcester, and Devon), and garden produce (near London and the large towns). large towns).

large towns).

(2) CATTLE AND SHEEF FARMING.—Of recent years more attention has been given to pasture than to arable cultivation. Dairy farming is carried on in Cheshire and Staffordshire, and in Buckingham and other south central counties. Sheep farming is carried on in Lincolnshire, Nottingham, Leicester, Northampton, Rutland, Yorkshire, and in the south of England.

(3) FISHERIES.—The fisheries are very important. Fleets of fishing vessels trawl all the year round on the Dogger Bank and over the North Sea, sending in the catch daily by special fast steamers to various ports especially London, where Billingspale is the largest fish-market in the world. Soles,

vessels trawl all the year round on the Dogger Bank and over the North Sea, sending in the catch daily by special fast steamers to various ports especially London, where Billingsgate is the largest fish-market in the world. Soles, plaice, and other flat fish, and herrings, are caught on the Dogger Bank. Pilchards and mackerel are taken off the coast of Cornwall, and oysters are cultivated in the Wash, Thames, and other shallow estuaries.

(4) Minerals.—England and Wales are rich in minerals. The chief minerals are coal and iron—the main sources of the wealth of the country—lead, copper, zinc, tin, salt, marble, slate, and building-stone.

The principal coal fields are: (1) the Northumberland and Durham coal field (chief centre, Newcastle-upon-Tyne); (2) the Yorkshire and Derbyshire coal field, between Leeds and Derby; (3) the Lancashire coal field, in "The Potteries" district; (5) the South Staffordshire coal field, in the Wolverhampton iron district; (6) the Bristol coal field; and (7) the South Wales coal field. The coal fields have an area of more than 12,000 square miles—twice the size of Yorkshire.

Manufactures.—The principal manufactures, with their chief centres, are: Carpets (Axminster, Halifax, and Kidderminster); chemicals (Cheshire, Lancashire, and Tyneside); cottons (South Lancashire in Manchester, Blackburn, Preston, Oldham, Bolton, etc.); cutlery, tools, etc. (Sheffield and the Birmigham districts); cycles and motor cars (Coventry, Birmingham, Wolverhampton); earthenware ("The Potteries": Burslem, Stoke-on-Trent, etc.); hardware, machinery, etc. (Birmingham, Dudley, Wolverhampton, Newcastle, Leeds, and Lincoln); lace and hosiery (Nottingham, Derby, Leicester, and Worcester, and to some extent the southwest counties); leather and boots (Northampton, Stafford, Kettering, Norwich, and Leicester); silk (Manchester, Macclesfield, Derby, and Spitalfields in London); straw plaiting (Bedford, Hertford, and Buckingham); watches and jewellery (Birmingham, London, Coventry, and Manchester); and woollens (We

COUNTIES, TOWNS, AND INDUSTRIES OF ENGLAND AND WALES (See Map, p. 34.)

COUNTIES AND INDUSTRIES CHIEF TOWNS AND THEIR INDUSTRIES Six Northern Counties
Northumberland. Mining and
metal working. Neweastle-upon-Tyne* (coal, iron, shipbuilding, chemicals, glass), Berwick-upon-Tweed (salmon fishing), Hexham (hats, gloves), North Shields (coal, shipping) cals, glass), Berwick-upon-Tweed (salmon fishing), Hexham (hats, gloves), North Shields (coal, shipping).

Cartisite† (railway centre), Whitehaven and Maryport (coal), Workington (coal, steel works), Penrith (agriculture), Keswick.

Appleby, Kendal (woollen).

Durham†, Sunderland (shipbuilding, coal), Gateshead (iron, chemicals), Jarrow (chemicals, shipbuilding), South Shields (shipping, coal), Darlington and Stockton (iron), Hartlepool (exports coal).

York†, Doncaster, Knaresborough and Northallerton (farming centres), Middlesborough (steel, iron, salt), Scarborough and Whitby (watering-places), Hull (chief port of the county); Leeds, Bradford, Halifax, Huddersfield, Dewsbury, and Keighley (woollen); Wakefield† (corn, cattle), Sheffield† (cutlery, steel), Rotherham (steel, iron, coal), Barnsley (linen, steel, iron, coal), Ripon†, Richmond.

Lancaster (cotton), Liverpool† (shipping, chief port for American trade; sugar refining, cotton, engine and machine works), Manchester† (cotton, engine and machine works), Salford, Bolton, Blackburn, Preston, Bury, Wigan, Oldham (cotton); Rochdale (cotton, flannel), St. Helen's (glass, chemicals) Widnes (soap, soda, chemicals), Barrow-in-Furness (steel, jute, shipping), Warrington (wire, iron, soap), Southport, Blackpool. CUMBERLAND. Agriculture; coal, iron, and lead mining. Westmorland. Agriculture. Durham. Coal and iron min-ing, ironworks, cattle breeding. YORKSHIRE. Agriculture, wool, linen, cutlery, coal and iron mining, ironworks.

LANCASHIRE. Cotton, coal min-ing, ironworks.

COUNTIES, TOWNS, AND INDUSTRIES OF ENGLAND AND WALES-Continued

COUNTIES AND INDUSTRIES CHIEF TOWNS AND THEIR INDUSTRIES Six Western Counties CHESHIEE. Cheese-making, salt mining and refining. Chester†, Birkenhead (shipbuilding), Stockport (cotton), Northwich (salt), Macclesfield (silk), Crewe (engines, railway centre), Stalybridge (cotton), Runcorn (iton, chemicals). Sheeusbury (flannel), Wellington (coal), Bridgenorth (carpets), Oswestry (woollen). Hereford†, Leominster. SHROPSHIRE. Agriculture, coal mining, ironworks, pottery. Herefordshire. Hops, apples; cattle breeding. Monmourtshire. Agriculture, coal and iron mining. GLOUCESTERSHIRE. Agriculture, coal mining, stone quarties. Monmouth, Newport (port for minerals), Tredegar and Pontypool (iron, coal). Gloucester (timber), Bristol† (glass, sugar, tobacco, coal), Cheltenham (mineral springa), Stroud (woollen). Taunton, Bath (mineral springs), Bridgewater (pottery), Frome (cloth, ale), Yeovil (gloves), Wells†. SOMERSET. Dairy farms, coal Five Eastern Counties LINCOLNSHIRE. iron mining. Lincoln† (agricultural machinery), Grimsby and Boston (fishing, timber), Grantham (corn), Gainsborough (machinery). Norwich† (boots and shoes, crape, shawls), Yarmouth (fish curing). 1pswich† (agricultural implements), Lowestoft (herring fishery), Bury St. Edmunds. Chelmsford† (agricultural machinery), Harwich (port for Holland and Belgium), Shoeburyness (artillery station), West Ham (chemicals, soap), Colchester. Cambridge, Ely†, Wisbeach (corn). Agriculture. NORFOLK, Agriculture, fisheries Suffolk. Agriculture. Essex. Agriculture. CAMBRIDGEEHIRE. Agriculture. Nine Southern Counties Kent. Agriculture, hops, fruit, lime, and bricks. Maidstone (hop trade), Chatham (naval arsenal), Sheerness (naval arsenal), Woolwich (military arsenal), Greenwich (famous observatory), Dover and Folkestone (ports for traffic with France), Tunbridge Wells, Ramsgate, Margate (watering-places); Rochesterf, Canterbury,† Lewes (corn), Brighton, Hastings, and Eastbourne (watering-places), Chichester.,† Guildford, Croydon (corn), Epsom. Sussex. Agriculture, hops sheep farming. Surrey. Agriculture, manufactures. BERKSHIRE OF BERKS. Agriculture, nurseries. HAMESHIRE OF HANTS. Agriculture, hops. Reading (nursery gardens), Windsor, Wantage. Winchesterf Portsmouth (naval arsenal), Southampton (mail steamship station), Newport, Ryde, Ventnor, Cowes (watering-places in Isle of Wight). Salisbury! (corn), Swindon (railway works), Trowbridge (cloth), Devizes (corn), Marlborough. Dorchester (cloth), Poole (china-clay), Weymouth (watering-place), Bridport (flax spinning). Exterf, Plymouth (seaport), Devonport (shipbuilding), Honiton and Tiverton (lace), Tavistock (copper mining), Torquay (watering-place), Axminster (carpets), Brixham (fishing), Teignmouth, Dawlish, Exmouth, Sidmouth, Dartmouth, Ilfracombe. Bodmin (worsted), Trurof (copper mining), Penzance, Falmouth, St. Ives and Padstow (fisheries); Launceston (ming). WILTSHIRE OF WILTS. Sheep-farming, cloth. DOSSET. Dairy farms, china-clay, building stone. DEVONSHIRE. Agriculture, cop-per, tin, china-clay, granite. CORNWALL. Copper, tin, and lead mining, china-clay, granite. Fourteen Midland Counties NOTTINGHAMSHIRE OF NOTTS. Agriculture, lace, hosiery, silk, coal and iron mines. Derbyshire. Agriculture; coal, iron, and lead mining. STAFFORSHIRE. Coal and iron mining, pottery, brewing. Nottingham (lace, hosiery), Newark (linen, malt, corn), Worksop (malt, timber), Southwell.† Worksop (malt, timber), Southwell.† Derby (silk), Glossop (cotton), Chesterfield (lace, cotton, silk), Matlock and Buxton (mineral springs). Stafford (boots), Burton-upon-Trent (brewing); Wolver-hampton, West Bromwich, Walsall, Wednesbury, Bilston:—called the "Black Country" (iron); Hanley, Stoke, Burslem, Tunstall:—called the "Potteries" (pottery); Lichfield, "Worcesterf" (potreclain), Malvern (watering-place), Dudley (coal, iron, hardware), Kidderminster (carpets), Stourbridge (glass, pottery), Droitwich (salt). Warwick, Birminghamf (hardware, jewellery, pins, screws, machines, guns, cutlery, pens, etc.), Coventry (bicycles, watches, clocks, ribbons), Leamington (watering-place), Rugby, Stratford-on-Avon. Leicster (hosiery, boots and shoes), Loughborough (hosiery), Ashby de la Zouche (coal). Woncestershire. Agriculture; coal, iron, and salt mining; pottery. WARWICKSHIRR. Agriculture, metal trades, coal mining. LEICESTERSHIBE. Agriculture, hosiery, boots and shoes, coal mining. RUTLAND. Agriculture. NOETHAMPTONSHIRE. Agriculture, iroo mining, boots and shoes. HUNTINGDONSHIRE. Agriculture. Oakham. Northampton (boots and shoes, iron), Kettering and Wellingborough (shoes, iron), Peterborough† (railway centre). Huntingdon. ture. Bedfordshire. Agriculture, straw plaiting. Hertfordshire or Herts. Agriculture, malting. MIDDLESEX. Market-gardens, brick-making, manufactures, trade and commerce of London. Bed/ord (agricultural machinery), Luton and Dunstable (straw plairing). Hertford (malting and seed mills, lace, straw plairing), St. Albans.† London† (leather, watches, silk, clothing, boots and shoes, pottery, candles, soap, chemicals, etc.), Brentford (distilling, brewing, chemicals), Harrow, Staines, Uxbridge. Buckingham (lace), Aylesbury (condensed milk), Eton. Oxford†, Banbury (cakes), Witney (blankets). Buckinghamshire or Bucks. Oxfordshire. Agriculture. Tweloe Welsh Counties FLINTSHIRE. Lead, iron, and coal mining. DENEGISHHIRE. Sheep-farming. CARNARVONSHIRE. Sheep-farming, slate quarrying. ANOLESEA. Copper mining, agriculture.

Mold (coal and lead mining), Holywell, St. Asaph,†
Rhyl.
Denbish (tanning and shoemaking), Wrexham.
Carnaron, Penrhyn and Bangor† (slate quarrying),
Conway.
Beaumaris (wateriog-place), Holyhead (packet station for Dublin.
Montgomery; Welshpool and Newton (flannel weaving).

Dolgelly (flannels and tweeds), Barmouth (watering-place). Cardigan Aberystwyth (watering-place).

riculture.
MONTGOMERYSHIRE. Agriculture; lead mining, flannel.
MERIONETHSHIEB. Slate and lead working; sheep farming.
CARDIGANSHIRE. Agriculture lead mining. CARDIGANSHIRE. Agriculture lead mining.
RADNORSHIRE. Agriculture.
BRECKNOCKSHIRE. Agriculture.
GLAMORGANSHIRE. Coal mining, iron and smelting works. New Radnor

New Kaanur Brecon.

Cardiff (shipping port for coal), Swansea (iron works, copper smelting) Merthyr Tydvil (coal, steel), Llandaff, Carmarthen (metal works). Llanelly (shipping port for coal, iron, copper).

Pembroke St. David's.†

CARMARTHENSHIRE. Coal min-ing, iron and smelting works, Pembaokeshire. Agriculture.

SCOTLAND

(See Map, p. 25)

NATURAL PRODUCTIONS.—Agriculture is one of the chief industries of Scotland. The crops are raised mainly in the plains and valleys of the east and south. The chief crops are oats, (the principal cereal on the oceanic border), wheat (in the Lothians, Fife, and the Merse of Berwick) barley, potatoes, and turnips. Potatoes and turnips are called "green crops." The average crop of roots in Scotland amounts to half that of England. Cattle are reared chiefly in Aberdeen, Ayr, and Wigtown; sheep in the Highlands and southern uplands. Butter and cheese are produced mainly in the southwest. Clydesdale and Shetland are noted for their horses.

MINERALS.—The most important minerals found in Scotland are: coal and iron (in the basins of the Forth and Clyde); lead (in the Lowther Hills and in Argyll); granite (chiefly in Aberdeenshire and Kirkeudbrightshire): slate, for roofing (in Argyllshire and Perthshire); marble (in Sutherland, Perth, and Lewis).

MANUFACTURES.—The principal mapufactures of Scotland with the

and Lewis).

Manufactures.—The principal manufactures of Scotland, with their chief centres, are: Cotton goods (Glasgow and Paisley); linens (Dundee, Montrose, Arbroath, and Forfar); fine linens (Dunfermline and Paisley); woollens (Hawick, Galashiels, Aberdeen, Kilmarnock, and Bannockburn); thread (Paisley); carpets (Kilmarnock and Dundee); machinery (Glasgow, Dundee, and Falkirk); iron and steel (Glasgow, Airdrie, Coatbridge, and Dundee); shipbuilding (Glasgow and other towns on the Clyde, Aberdeen, Dundee, and Leith). Dundee, and Leith).

CHIEF TOWNS AND INDUSTRIES OF SCOTLAND (See Map p. 35)

TOWN	COUNTY	PRINCIPAL INDUSTRIES
Hiehlands		
ABERDEEN	Aberdeen	Granite works, shipbuilding; cotton, wool and paper manufactures.
INVERNESS	Inverness	Shipping.
Kirkwall	Orkney and Shetland	(Seaport.)
LERWICK	Orkney and Shetland	Whale and sea fishing.
Ретепнело	Aberdeen	Herring fishery, granite.
STORNOWAY	Ross	Fishing.
STROMNESE	Orkney and Shetland	Shipbuilding.
Thurso	Caithoess	Exports paving-stones; packet station for Stromness and Kirkwall in the Orkneys.
Wick	Caithness	Chief seat of herring fishery,
Midlands		
Arbroath	Forfar	Canvas, yarn, and sailcloth manufactures,
CAMPBELTOWN	Argy!l	Distilleries.
CARRON	Stirling	Ironworks,
CRIEFF .	Perth	Jam, linen and woollen manufactures.
CUPAR	Fife	Linen manufactures.
DUMBARTON	Dumbarton	Shipbuilding, iron foundries.
Dungee	Forfar	Shipbuilding, iron foundries; chief seat of liner and jute manufactures.
DUNFERMLINE	Fife	Linen manufactures.
FALKIRK	Stirling	Centre of iron and coal districts; noted cattle markets, called "trysts."
INVERARY	Argyll	Fishing.
Montrose	Forfar	Linen manufactures.
OBAN	Argyll	(Seaport.)
Perth	Perth	(Ancient capital of Scotland). Textiles.
ROTHESAY	Bute	(Watering-place.)
STIRLING	Stirling	(Famous castle. Bannockburn is near).
Stonehaven Lowlands	Kincardine	Herring fishery.
Airdrie	Lanark	Coal and iron.
AYR	Avr	Forest and and inch
Dumfries	Dumfries	Noted cattle market.
DUNBAR	Haddington	Herring fishery.
EDINBURGH	Edinburgh	(Capital of Scotland). Brewing; large book
GALASHIELS	Selkirk	Woollen manufactures.
GLASGOW	Lanark	Shipbuilding, ironworks; textile, machinery, chemical, pottery, and glass manufactures.
GREENOCK	Renfrew	Shipbuilding, sugar refining.
HAMILTON	Lanark	Lace and muslin manufactures.
HAWICK	Roxhurgh	Woollen manufactures.
JEDBURGH	Roxburgh	Woollen manufactures.
KILMARNOCK	Ayr	Ironworks, engineering; carpet and woolled manufactures.
LEITH	Edinburgh	Large shipping trade with Baltic and North Sea ports; shipbuilding.
PAISLEY	Renfrew	Thread, shawl, muslin, and linen manufactures.
PEEBLES	Peebles	Woollen manufactures.
PRESTONPANS	Haddington	Brewing.
RENFREW	Renfrew	Muslin and silk manufactures.
SELKIRK	Selkirk	Woollen manufactures.

IRELAND

(See Map, p. 36)

NATURAL PRODUCTIONS.—One half of Ireland is given up to pasture for the country is better adapted for grazing and dairy-farming than for tillage. Potatoes are widely cultivated, and form the most valuable crop. Oats are grown in the east, north, and south. Flax and hemp are largely grown in Ulster for the linen manufacture. Horses, cattle, sheep, and pigs are reared for exportation. Great quantities of butter are shipped to England and Scotland. and Scotland.

There are few minerals. Some inferior coal and a little iron are found; copper and lead are found in small quantities in the south and southwest.

Manufactures.—The chief manufacture is linen, which is mostly confined to Ulster. Shipbuilding is carried on at Belfast and Cork.

The county town is given first. †Cathedral city.

CHIEF TOWNS AND INDUSTRIES OF IRELAND (See Map, p. 36)

TOWN	COUNTY	PRINCIPAL INDUSTRIES
ARMAGH BELFAST	Armagh, U.* Antrim, U.	(Ecclesiastical metropolis of Ireland.) Linen manufactures, iron foundries, engineering, shipbuilding, large export trade.
Cork	Cork, M.	Shipbuilding, distilleries; large export trade in cattle and butter.
DROGHEDA	Louth, L.	Linen and cotton manufactures; exports
Dublin	Dublin, L.	(Capital of Ireland.) Whisky distilling, porter brewing, manufacture of poplins; large export trade.
Dundalk Galway	Louth, L. Galway, C.	Fisheries; grain and cattle exports. Fisheries; exports black marble, and agricultural produce,
Kilkenny Killarney Kingstown	Kilkenny, L. Kerry, M. Dublin, L.	Marble works. (Noted for its beautiful scenery.) (Packet station for Holyhead.)
Limerick Londonderry,	Limerick, M. Londonderry, L.	Flour-mills, lace, gloves; coasting and foreign trade. Linen manufactures, coasting and general
Newry Queenstown Tipperary Waterpord Wexford	Down, U. Cork, M. Tipperary, M. Waterford, M. Weyford, L.	trade. Linen and cotton manufactures. (Port of call for American vessels.) Corn and dairy produce. Exports, agricultural produce. Exports, provisions, cattle, and dairy produce.

*U. = Ulster. L. = Leinster, M. = Munster, C. = Connaught.

CHIEF PORTS IN THE UNITED KINGDOM.—(1) ENGLAND AND WALES.—London, Liverpool, Cardiff, Newcastle and Shields, Southampton, Hull, Plymouth, Newport, Grimsby, Dover, Manchester, Middlesbrough, Swansea, Sunderland, Folkestone, Bristol, and Blyth.

(2) SCOTLAND.—Glasgow, Leith, Methil, Grangemouth, Dundee, Aberders and Grangel

(2) Scotland.—Glasgow, Leith, Methil, Grangemouth, Dundee, Aderdeen, and Greenock.

(3) Ireland.—Cork, Belfast, and Dublin.
Chief Commercial Towns.—London, Liverpool, Manchester, Glasgow, Belfast, and Birmingham, are the leading commercial towns in the United Kingdom. London is the great commercial capital, not of Great Britain alone, but of the world. London does the chief trade with the Orient. Liverpool does the main American' trade, and exports more British produce and manufactures than any other port.

Commerce.—One fifth of the entire trade of the world, and one third of the entire trade of Europe pass through English hands. The raw materials and produce of the world are imported into Great Britain, which pays for them with its manufactures.

them with its manufactures.

"It is here that the great value and advantage of the English trade lies, as compared, for example, with the trade of the Dutch. The latter must procure foreign manufactures to pay for their imports, while the British themselves manufacture the raw material, and dispose of the manufactured article at a high price in the very spot whence they obtained the raw material at the lowest cost. In this way the great trading firms and the great manufacturing firms work into each other's hands, a fact which goes far to explain how Englishmade goods are cheap as well as solid."

The principal countries with which Great Britain is engaged in trade are the United States, France, and Germany, besides an extensive trade with the British colonies and other foreign countries.

(1) WITH THE UNITED STATES.—British trade with the United States is about twice as large as that with any other country. The imports from America are much greater than the exports to it. From America is obtained large quantities of foodstuffs and raw materials, especially cotton, copper, iron, and steel; also animal and mineral oils, tobacco, and wood; while to it Great Britain sends metal goods, textiles, India rubber, chemicals, drugs, dyes, wines, spirits, and a great variety of commodities.

(2) WITH FRANCE.—Wines and brandy, silken and woollen goods, and many minor foodstuffs are supplied to England; while in return France receives coal, textiles, colonial wool, and various manufactures.

(3) WITH GERMANY.—Foodstuffs, including a large quantity of beet sugar, are imported from Germany; while to it England sends wool and woollens, cotton and cotton goods, metals and machinery.

cotton and cotton goods, metals and machinery.

CHIEF IMPORTS.—(1) FOOD, DRINK, AND TOBACCO: Wheat, barley, oats, maize, rice, wheatmeal and flour, live animals, meat and bacon, butter, cheese, eggs, fish, fruit, lard, margarine, vegetables, wine, sugar, tobacco, coffee, tea, and other colonial produce.

(2) RAW MATERIALS: Cotton, wool, jute, skins and furs, hides, leather,

(2) NAW MATERIALS: Cotton, wool, jute, skins and turs, nides, leather, metallic ores, oils, timber, paper-making materials.

(3) MANUFACTURED GOODS: Cottons, woollens, silks, machinery, automobiles, earthenware, glass, apparel, chemicals, dyes, etc.

CHIEF EXPORTS.—(1) FOOD, DRINK, AND TOBACCO: Grain and flour, meat, beer and ale, biscuits and cakes, herrings, spirits, tobacco.

(2) RAW MATERIALS: Coal, iron, tin, salt, copper, lead, wool, oilseeds, hides.

(3) Manufactured Goods: Cottons and yarn, haberdashery; woollen, linen, jute, leather, India rubber, and silk goods; apparel, machinery, hardware, cutlery, arms and ammunition, electrical goods, jewellery, railway plant; earthenware, glass, chemicals, drugs, carriages and carts, ships, paper and books.

and books.

COMMUNICATIONS.—The United Kingdom is traversed by about 1,800 miles of navigable rivers, 4,670 miles of canals, and 24,000 miles of railway. The Manchester Ship Canal, opened in 1894, has a total length of 36 miles, and connects Manchester with the Mersey port of Liverpool. Most of the great English railways radiate from London; and there is a close network all over the country. Of the lines which go north, the principal are the London and Northwestern (Euston Station to Carlisle, via Rugby, Stafford, Crewe, Wigan, Preston, and Lancaster; by the Caledonian it goes on to Glasgow and Edinburgh); the Midland (St. Pancras Station to Derby and

Carlisle; by the Scottish Southwestern it goes to Glasgow); and the Great Northern (King's Cross to York, via Peterborough, Grantham, and Doncaster; then on to Newcastle and Berwick by the Northeastern, and to Edinburgh and Glasgow by the North British).

Of the lines which go west, the most important are the Great Western (Paddington Station to Bristol, Exeter, Plymouth, Penzance, and to Cardiff and Milford) and the Southwestern (Waterloo Station to Salisbury and Exeter, and to coast towns of Portsmouth, Southampton, and

Salisbury and Exeter, and to coast towns of Portsmouth, Southampton, and Weymouth).

The most important line to the south is the London, Brighton, and South Coast (London Bridge and Victoria Stations).

The principal lines to the east are the Great Eastern (Liverpool Street Station to Cambridge and towns in the eastern counties); the Southeastern (Charing Cross to Dover and Folkestone); and the London, Chatham, and Dover, the chief line to the Continent (Holborn and Victoria Stations to Dover.)

Other important lines are the Lancashire and Yorkshire; the Manchester

Other important lines are the Lancashire and Yorkshire; the Manchester and Liverpool; and the Northeastern. In Scotland there are the North British (Glasgow to Edinburgh and Berwick); the Caledonian (Edinburgh and Glasgow to Carlisle); the Glasgow and Southwestern (Glasgow and Kilmarnock to Carlisle); and the Highland (Perth to Inverness and Wick, and Dingwall to

Strome).

The Irish Railway System radiates in all directions from Dublin; but as the population is not dense, and there are few large towns, the network is less close than in England. From Dublin run the Dublin, Wicklow, and Wexford, the Great Southern and Western (to Cork, Limerick, Killarney, and Tralee); Midland and Great Western (to Galway, with branches to the north and northwest); and the Dublin and Belfast. From Dundalk runs the Irish Northwestern to Londonderry; and from Belfast runs the Belfast and Northern Counties, through Antrim to Londonderry.

The Telegraph and the Telephone are government monopolies. There are 265,000 miles of telegraph wires and about 2,900,000 miles of telephone wires in the United Kingdom.

are 265,000 miles of telegraph wires and about 2,900,000 miles of telephone wires in the United Kingdom.

Government.—The British constitution is mainly unwritten and customary, but its development is marked by certain fundamental laws, of which the principal are Magna Carta (1215), which secured annual parliaments and the equal administration of justice; the Habeas Corpus Act (1679), which established the liberty of the person; the Act of Settlement (1701), which provided for the Protestant succession to the throne; the Act of Union with Scotland (1707) and the Act of Union with Ireland (1800), which created the United Kingdom; and the Parliament Act (1911), which enabled the Commons to pass certain acts without the adherence of the House of Lords.

the Commons to pass certain acts without the adherence of the House of Lords.

(1) The Sovereign.—The throne is hereditary in the House of Windsor (formerly Saxe-Coburg-Gotha). The monarchy is constitutional and limited. The King has a right to veto bills passed by Parliament, but in practice his veto is almost obsolete.

(2) The Legislature.—Parliament is composed of the Sovereign and the Three Estates of the Realm, which are the Lords Spiritual, the Lords Temporal, and the Commons. The Lords Spiritual and Temporal form the House of Lords, consisting of 632 members. A peer may hold his seat by (1) hereditary right; (2) creation by the King; (3) official position or election. Irish peers are elected for life, and Scottish peers for the duration of Parliament. Members of the Upper House receive no remuneration.

The House of Commons, the Lower House, consists of 670 members, (465 for England, 30 for Wales, 72 for Scotland, and 103 for Ireland), elected by the registered male electors in county, borough, and university constituencies. Roughly speaking, about one sixth of the population are electors. The maximum duration of Parliament is five years. Members of the House of Commons receive \$2,000 per annum.

of Commons receive \$2,000 per annum.

(3) IMPERIAL DOMINIONS.—British dominions beyond the seas consist of colonies, dependencies, and protectorates. These may be divided into three classes, according to the way in which they are governed:

(1) Responsible governments, possessing a separate constitution; e. g., Canada, Newfoundland, Australia, New Zealand, and the Union of South

Africa.

(2) Representative governments, in which the legislature is partly elected and partly controlled by the Governor representing the crown; e. g., The Bahamas, Barbados, Bermuda, British Guiana, Jamaica, Leeward Islands, Mauritius, and Malta.

(3) Crown colonies: (a) Where there is government by a Governor acting with an executive and a legislative council, the councils being nominated by the Crown or a Governor representing the Crown: e. g., Ceylon, Falkland Islands, Fiji, Gambia, Hongkong, St. Vincent, Sierra Leone, Straits Settlements, Trinidad.

(b) Wherein both legislative and executive power are vested in the Governor alone; e. g., Gibraltar, Labuan, and St. Helena.

The Indian Empire is administered by a Governor-General or Viceroy and a council appointed by the Crown. For legislative purposes, a partly elected and partly nominated Imperial Council exists.

Protectorates are countries which, as regards their foreign relations, are under the exclusive control of the crown; e. g., British East Africa, Somaliland, Nyasaland, Uganda, Swaziland, and Nigeria.

Spheres of influence are areas wherein other Powers undertake not to attempt to acquire influence or territory by treaty or annexation.

Spheres of influence are areas wherein other Powers undertake not to attempt to acquire influence or territory by treaty or annexation.

(4) Local Government.—Local government is carried out under the central control of Local Government Boards. The subjects which local bodies administer are, inter alia, the Poor Law; the laws relating to public health; the maintenance of the police; the control of the sale of intoxicating liquors; the provision of lunatic asylums. Local authorities have to administer and carry into effect the laws as to elementary and other schools. Scotland and Ireland each have an elaborate system of local government. The ruling principle has been to entrust such interests to those specially. The ruling principle has been to entrust such interests to those specially interested. In England and Wales there are elective Councils for each county (under Chairmen), for each city and county borough (under Lord Mayors or Mayors), and for urban and rural districts (under Chairmen), every parish being thus included.

¹C. Zehden, "Commercial Geography of the World" (1893).

BRITISH DOMINIONS

DOMINIONS	HOW ACQUIRED	DATE	(sq. miles)	POPULATION
7		•		
Europe United Kingdom			121,090	45,500,000
Isle of Man			230	50,000
Channel Islands Malta and Gozo	Treaty Cession	1814	70 120	97,000 211,000
Gibraltar	Treaty Cession	1713	2	20,000
Asia Faria	Con & Transer	vere +90e	* ***	
Indian Empire Ceylon	Con. & Treaty Treaty Cession	1757-1897	1,900,000 25,500	315,000,000 4,100,000
Straits Settlements	Treaty Cession Treaty Cession Treaty Cession Treaty Cession Treaty Cession	1785-1909	1,770	700,000
Federated Malay States	Treaty Cession	1874-1888	27,700	1,000,000
Other Malay States Hongkong	Treaty Cession	1909 1842-1906	14,200 390	800,000 440,000
Weihaiwei	Treaty Cession	1898	300	160,000
North Borneo Brunei	Cession Treaty Cession	1877 1888	31,100 4,000	30,000
Sarawak	Protectorate	1888	50,000	650,000
Cyprus	Treaty Cession*	1878	3,600	275,000
Africa Union of South Africa:	1			
Cape Province	Treaty Cession	1814	277,000	
Natal	Annexation	1843	35,400	5,100,000
Transvaal Orange Free State	Annexation Annexation	1900	50,400	, ,
Basutoland	Annexation	1868	10,300	350,000
Bechuanaland	Annexation	1895	275,000	126,000
Swaziland Rhodesia	Annexation Annexation	1903 1889	6,678 45 0,000	1,750,000
British West Africa:				
Gambia	Treaty Cession Treaty Cession	1807 1672	4,000	146,000
Gold Coast Colony Sierra Leone	Treaty Cession	1787	80,000 34,000	1,400,000
Nigeria	Treaty Cession Treaty Cession	1891	333,700 68,000	17,000,000
Somaliland East Africa Protectorate	Treaty Cession	1884	68,000	300,000
Uganda	Treaty Cession Treaty Cession	1888 1894	182,000 223,500	2,500,000
Zanzibar	Treaty Cession	1890	1,020	200,000
Nyasaland	Treaty Cession	1891 1882	300,000	1,000,000
Egypt Anglo-Egyptian Sudan	Occupation† Conquest	1898	400,000 1,000,000	2,000,000
Mauritius	Conq. & Cession	1810-1814	720	370,000
Seychelles Ascension	Treaty Cession Occupation	1814	150 40	23,000
St. Helena	Conquest	1673	47	3,500
America				
Dominion of Canada:	Come de Continu	1759-1763		4
Untario	Cond. & Cession		407,262	
Ontario Quebec	Conq. & Cession Conq. & Cession	1759-1763	407,262 706,834	
Quebec Nova Scotia	Conq. & Cession Conq. & Cession	1759-1763 1627-1713	706,834	
Quebec Nova Scotia New Brunswick	Conq. & Cession Conq. & Cession Treaty Cession	1759-1763 1627-1713 1763	706,834 21,428 27,985	
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement	1759-1763 1627-1713 1763 1745-1763 1670	706,834 21,428 27,985 2,184 355,855	7,200,000
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670	706,834 21,428 27,985 2,184 355,855 251,832	7,200,000
Quebec Nova Scotia New Brunswick Prince Edward Island	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670	706,834 21,428 27,985 2,184 355,855	7,200,000
Quebec Nova Scotia New Brunswick Prince Edward Island British Columbia Manicoba Alberta Saskatchewao Yukon	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076	7,200,000
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia Manitoba Alberta Sask atchewao Yukon Northwest Territories	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670 1898‡	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224	
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia Manitoha Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076	7,200,000 240,000 4,000
Quebec Nova Scotia New Brunswick Prince Edward Island British Columbia Manitoha Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies:	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Treaty Cession Treaty Cession	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670 1808\$ 1670 1583 1763	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 120,000	240,000 4,000
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Settlement Treaty Cession Treaty Cession Conquest	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670 1898 1670 1898 1763 1763	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 120,000	240,000 4,000 855,000
Quebec Nova Scotia New Brunswick Prince Edward Island British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Settlement Settlement Conquest Settlement Conquest Settlement Settlement Settlement Settlement Settlement Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 18981 1670 18981 1670 1583 1763 1655 1629 1623-1659	706,834 21,428 27,985 2,184 355,855 251,832 255,285 207,076 1,242,224 40,000 120,000	240,000 4,000 855,000 56,000
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Settlement Conquest Conquest Settlement Settlement Conquest Settlement Settlement Conquest Settlement Settlement	1759-1763 1627-1713 1763-1763 1670-1811 1670-1881 1670-1898 1670-1583 1763-1659 1629-1629-1629-1623-1763-1763	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 4,200 4,400 5,510	240,000 4,000 855,000 56,000 140,000 200,000
Quebec Nova Scotia New Brunswick Prince Edward Island British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands Barbados	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Treaty Cession Conquest Conquest Settlement Settlement Settlement Settlement Conquest Settlement Settlement Settlement Settlement Settlement Settlement Settlement Settlement	1759-1763 1763-1713 1763 1745-1763 1670 1811 1670 1898 1670 1583 1763 1655 1629 1629-1659 1763-1783 1605	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 120,000 4,200 4,400 750 510	240,000 4,000 855,000 56,000 140,000 200,000
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands Barbados Trinidad and Tobago	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Treaty Cession Treaty Cession Conquest Settlement Treaty Cession Conquest Settlement Settlement Conquest Settlement Conquest Cession Settlement Conquest Conquest Conquest Conquest Conquest Conquest Conquest	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1898 1670 1898 1763 1763 1763 1655 1629 1623-1659 1763 1763 1763 1763 1763 1763 1763 1763	706,834 21,428 21,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 120,000 4,200 4,400 750 510 170 1,860 90,300	240,00 4,00 855,00 56,00 140,00 200,00 196,00 310,00
Quebec Nova Scotia New Brunswick Prince Edward Island British Columbia Manitoha Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands Barbados Trinidad and Tobago British Guiana British Guiana British Honduras	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Settlement Cottlement Settlement Settlement Settlement Cession Conquest Settlement Cession Conquest Settlement Cession Settlement Cession Settlement Cession Settlement Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670 1670 1583 1763 1763 1655 1623-1659 1763-1783 1605 1797 180814 1670 1583 1793 1623-1659 1793-1814 1798	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 4,200 4,400 4,400 170 1,860 90,300 8,600	240,00 4,00 855,00 140,00 200,00 196,00 330,00 310,00 40,50
Quebec Nova Scotia New Brunswick Prince Edward Islaod British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands Barbados Trinidad and Tobago	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Treaty Cession Treaty Cession Conquest Settlement Settlement Conquest Settlement Settlement Settlement Settlement Settlement Settlement Settlement Settlement Settlement Settlement Conquest Settlement Conquest Settlement Settlement Settlement Settlement Settlement	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1898‡ 1670 1583 1763 1655 1629 1623-1659 1763-1783 1695 1797 1803-1814 1798	706,834 21,428 21,985 21,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 120,000 4,400 750 510 170 1,860 90,300 8,600	240,000 4,000 855,000 140,000 200,000 195,000 330,000 310,000 40,500
Quebec Nova Scotia New Brunswick Prince Edward Islaad British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands Barbados Trinidad and Tobago British Guiana British Honduras Bermuda Falkland Islands South Georgia	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Settlement Cottlement Settlement Settlement Settlement Cession Conquest Settlement Cession Conquest Settlement Cession Settlement Cession Settlement Cession Settlement Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest Conquest	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1670 1670 1583 1763 1763 1655 1623-1659 1763-1783 1605 1797 180814 1670 1583 1793 1623-1659 1793-1814 1798	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 4,200 4,400 4,400 170 1,860 90,300 8,600	240,000 4,001 855,000 140,000 200,000 196,000 330,000 310,000 40,501
Quebec Nova Scotia New Brunswick Prince Edward Islaad British Columbia Manitoba Alberta Saskatchewao Yukon Northwest Territories Newfoundland Labrador British West Indies: Jamaica Bahamas Leeward Islands Windward Islands British Guiana British Honduras Bermuda Falkland Islands South Georgia Australasia	Conq. & Cession Conq. & Cession Treaty Cession Conquest Settlement Settlement Settlement Settlement Settlement Treaty Cession Conquest Conquest Settlement Conquest Settlement Settlement Settlement Settlement Settlement Settlement Settlement Settlement Settlement Cession Settlement Conquest Conq. & Cession Settlement Settlement Treaty Cession Settlement Settlement Treaty Cession	1759-1763 1627-1713 1763 1745-1763 1670 1811 1670 1818 1670 1898 1670 1583 1763 1655 1629 1629-1629 1623-1659 1797 1803-1814 1798 1612 1771	706,834 21,428 27,985 2,184 355,855 251,832 255,285 251,700 207,076 1,242,224 40,000 120,000 4,400 750 510 170 1,860 90,300 8,600 20 6,500	240,00 4,00 56,00 140,00 200,00 330,00 40,50 19,00 3,24
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*Formally annexed, 1914. †Date of Constitution.

†Protectorate proclaimed, 1914. §Part of South Australia, till 1910.

NORWAY (See Map, p. 37)

In the earliest times Norway, like the sister Scandinavian countries of Sweden and Denmark, was divided among petty kings or chiefs, and its people were notorious for their piratical habits. According to the Saga narratives the Northmen, or Vikings as they were often called, were the first discoverers of America. From the Middle Ages down to the time of Napoleon, Norway was merely a part of the Kingdom of Denmark. After the defeat of Napoleon in 1813, it was arranged by the treaty of Vienna in 1814 that Denmark, which had sided with Napoleon, must cede Norway to Sweden, and the result was the union of the two countries under the Swedish crown. The union was not unaccom-

panied by a certain amount of friction, partly owing to the democratic character of the constitution of Norway, in which country titles of nobility were abolished early in the nineteenth century. Norway declared this union dissolved on June 7, 1905, and a mutual agreement for its repeal was signed on October 26, 1905.

GRANDEUR OF THE FIORDS.—Nowhere else in Europe is there such a combination of mountain and ocean scenery as in Norway; nowhere else does the snow-clad peak rise directly out of the sea; while countless torrents, fed from the ice-fields overhead, plunge at one leap into the gorges below. Nowhere are there such sunsets as in the Land of the Midnight Sun. Language cannot paint that wonderful mystic light which travels around the northern horizon from west to east, so that one cannot tell when a night ends or a day

The charm and grandeur of the famous Geiranger fiord are thus pictured by an enthusiastic writer:

And what a scene it was! Others that I had beheld in Norway were fine, grand, even sublime, but no adjective has yet been coined that could adequately convey an idea of the stupendous magnificence of the Geiranger fiord. Perhaps, after all, simple facts will most clearly explain the character of this marvellous scene. Imagine then a dark waterway absolutely placid, and in no place more than a few hundred yards wide, bordered on either side by gigantic walls of gray and black granite from four to five thousand feet high. They shoot up in a line so straight that a stone dropped from the summit must fall direct into the water. And these mighty precipices extend all along the course of the fiord for many miles, until at last both shores circle round and join in a vast amphitheatre. Under their deep shadows the vessel creeps silently on, while the voices of the passengers are hushed by the solemnity of the spectacle. It must, indeed, surely be impossible to pass through this dark and awful avenue without being profoundly impressed by its weird and grandiose aspect. It is one of those rare scenes of Nature which overwhelm the mind that contemplates them.

One trifling circumstance enabled me to realize the immense height of these gigantic cliffs. The steamers are always followed by a flock of gulls, on the look-out for food, and one of these birds, either satisfied or disappointed by and one of these birds, either satisfied of disappointed by its quest, left us to seek its nest high up among the rocks above. I watched the bird as it flew up the side of the mountain, its white form and flapping wings standing out clearly against the dark gray rock. Little by little it diminished in size, until, when only half-way up the height, it appeared no bigger than a butterfly, then a mere white speck, and ere it had reached its home it had wholly vanished from girlt! from sight.1

SYNOPSIS OF NORWAY (See Map, p. 37)

Norway became a separate kingdom, independent of Sweden, in 1905, under Prince Charles of Denmark, who assumed the name of Haakon VII. It occupies the western portion of the peninsula of Scandinavia in the north-

It occupies the western portion of the peninsula of Scandinavia in the northwest of Europe.

CLIMATE.—The climate on the west coast is comparatively mild. Part of the country lies within the Arctic Circle, in the region of the polar night and of the midnight sun. The annual mean temperature of Bergen is 44.6° F.; Trondhjem 42.8° F.; and at the North Cape 35.6° F. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—Agriculture is unable to supply sufficient produce for home consumption hence it is necessary for Norway to import considerable quantities of provisions. The fisheries give employment to a large part of the population throughout the year. The most important are cod and herring. The minerals are few; a little silver and copper are mined. Iron mining has been developed chiefly in the present century.

MANUFACTURES.—The chief manufacturing industries are timber-dressing, mechanical engineering, textile manufactures, shipbuilding, pulp making, and preserved food (especially fish).

Towns.—Christiania (pop. 243,801) is the capital, principal harbour, and the one industrial town. Bergen is the headquarters of the fisheries. Stavanger and Trondhjem are other important harbours, Hammerfest, the most northerly town in Europe, is a centre for whale fishing.

CHIEF IMPORTS.—These consist chiefly of the necessary articles of consumption, and are sent mainly by Great Britain, Germany, Sweden, and the United States.

United States.

CHIEF EXPORTS.—Timber, matches, fish, oil, and other products of the fisheries, pulp, paper, skins and furs, metals, stone, ice, calcium carbide, condensed milk, butter, margarine, canned goods, etc. These go mainly to Great Britain, and the United States.

COMMUNICATIONS.—The total length of railways is about 2,000 miles, including about 300 miles of private lines. The length of telegraphs and telephones belonging to the state is about 14,000 miles.

GOVERNMENT.—The government is a limited monarchy. The Storthing or legislature consists of two chambers, the Lagthing or Upper House-and the Odelsthing or Lower House. The Odelsthing is composed of three fourths of the members of the Storthing, and the Lagthing of the remainder. All new bills originate in the Odelsthing. All other matters (except the inspection of public accounts, revision of the government, and impeachment, that belong to the Odelsthing) are settled in common sitting. Members are paid \$2.20.a. day during the session are paid \$3,20 a day during the session.

On November 2, 1907, the independence and territorial integrity of Norway was guaranteed by Great Britain, France, Germany, and Russia.

SWEDEN

(See Map, p. 37).

In the Middle Ages, especially under its celebrated kings Gustavus Adolphus and Charles XII., Sweden played an important rôle in European affairs, and for a time held considerable provinces on the south of the Baltic. After the Napoleonic wars, when so much of Europe was cast into the melting-pot, Sweden was given possession of Norway, but was separated from it again in 1905. Society in Sweden has retained an aristocratic mould, and has been more influenced by European culture than has society in Norway.

STOCKHOLM.—Stockholm, the capital, stands at the eastern outlet of Lake Mälar, partly on the mainland and partly on nine holms (holmar) or islands. Its natural beauty and its waterways have earned for it the name of the "Venice of the North," a description which it shares with Amsterdam.

LIFE IN SWEDEN.—In the long northern winter, the people delight in sleighing, skating, skiing, and tobogganing.

In the winter, too, comes the great season of Yule, or Christmas. People begin to prepare early for this joyous festival. Everybody has Christmas secrets, for gifts are universal. A few days before Christmas, the boats come into Stockholm laden with trees; and in a short while the streets are filled with the spicy fragrance of the forest. Every house in Sweden, from the King's Palace to the poorest hovel, has its Christmas tree; consequently the supply in the markets and shops is enormous, and on Christmas Eve every other person that you see is carrying home a tree. On Sunday before Christmas Day, an old custom permits the shops to remain open; and according to another old custom there is a special Christmas market in the Stor Torg, where little booths are erected for the occasion, and where, in addition to all the fancy articles, foods and Christmastree decorations, the gingerbread Yule pig (Yulgrisen) and Yule goat (Yulbocken) are conspicuous.

In every house, from that of the wealthy nobleman to that of the peasant, the same Christmas supper is served: a specially prepared fish for the first course; rice with cream and powdered cinnamon for the second; and roast goose for the third.

The Christmas festivities are not over until January 13th, which is called "Twentieth Day Yule."

A greater festival, however, is Midsummer's Day.

Summer in Sweden is very short. Every one, rejoicing in the bright sunshine, tries to make the most of it while it The days now are eighteen hours long and there is really no darkness. On June 23rd the town is deserted. Steamboats, trams, trains, cabs, and carriages convey thousands into the country and parks to spend the day on the grass and under the trees. Many carry their lunch baskets and others depend on the restaurants, but all are alike in one matter—they wear flowers or a bit of greenery. The birch bough and leaf are conspicuous everywhere. Cabs, carriages, and boats are masses of moving boughs and garlands. Horses and cabmen are also adorned, and everywhere you go, you see the Maypole, sometimes fifty or sixty feet high, gay with ribbons, flowers, garlands, and blue and yellow Swedish flags. The people dance and make merry around it, just as they used to do in England and in this country on the first of May, before the Puritans forbade it. The festivities are kept up all through the night, which is, after all, nothing but a red twilight; and the Midsummer bonfires

answer one another from rock to rock until they mingle their lurid gleams with the glowing banners of Odin's Valkyrie daughters-the Dawn Maidens.1

SYNOPSIS OF SWEDEN

(See Map, p. 37)

Sweden occupies the south and east parts of Scandinavia, its surface presenting lowland, rather than highland, characteristics. Its more elevated parts are those on the borders of Norway. The east coast, on the Baltic Sea and the Gulf of Bothnia has no deep openings. The rivers and lakes are numerous. The largest river is the Tornea, which rises among the Norwegian mountains and flows into the Gulf of Bothnia. The gigantic lakes not only add to the beauty of the scenery, but materially essiet the integral com-

gian mountains and flows into the Gulf of Bothnia. The gigantic lakes not only add to the beauty of the scenery, but materially assist the internal communication, being connected by lines of canals.

CLIMATE.—The lofty table-lands between Norway and Sweden keep back the warm moist winds from the Atlantic; hence Sweden is much drier and colder and has a somewhat continental climate. At Stockholm the mean temperature in January is 24.8° F., and in July 60.8° F. The rainfall varies from 14 to 20 inches. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—About one-half of Sweden is covered with forest; only 7 per cent of the land is tilled. Grain is grown mainly on the southern plain. The chief crop is oats; rye is also extensively grown. Cattle rearing is carried on to some extent; while in the north the Laplanders breed reindeer.

MINERALS.—Sweden is rich in *iron* ore, some of it the finest in the world as it is almost entirely free of phosphorous (.05% and less). Zinc, copper, and silver are also mined. The supply of coal is scanty, so much so that charcoal is largely used for smelting, and the quality of the iron is thereby

Manufactures.—The manufactories include ironworks, pulp mills, match factories, wood-working establishments of all kinds, breweries, distilleries, and chemical works.

Electrical energy is largely used for industrial purposes, the great waterfalls furnishing an endless supply of power.

CHIEF TOWNS AND THEIR INDUSTRIES

TOWN	POP. IN THOUSANDS	PROVINCE	PRINCIPAL INOUSTRIES
DANNEMORA ESKILSTUNA FALUN GEPLE GÖTEBORG HELSINGBORG JÖNKOPING KARLSKRONA	2 29 8 36 178 37 28	Upsala Södermanland Kopparborg Gefleborg Göteborg & Bohus Malmöhus Jönköping Blekinge	Iron mines. Iron, steel, cutlery. Copper mining. (Port for timber, iron, and copper.) Cottons, woollens, matches, engineeriog. Copper, rubber works, breweries. Matches. Naval equipments, canvas, leather, brew-
Malmö Norrköping Öreero Stockholm Upsala	96 46 33 382 27	Malmöhus Ostergötland Örebro Stockholm Upsala	eries. (Chief port for German and Danish trade.) Textiles. 1:on works Cottons, woollens. (University town.)

CAPITAL.—Stockholm, on Lake Mälar. Population 382,085

COMMERCE.—Göteborg is the chief port of Sweden. It is closed for a short period, and is connected to the Baltic by a ship canal. Stockholm has less trade because it is closed in winter and looks only toward Russia. Ger-

man trade peases chiefly through Malmö.

Commercial travellers in Sweden are compelled to take out a license costing 100 crowns (\$26.80) a month.

CHIEF IMPORTS.—Coal is the principal, while iron and steel goods, grain, wool and woollen goods, rank next in importance. Other imports are coffee, wine, tobacco, and other colonial produce, cloth, manure, oils, and fals.

CHIEF EXPORTS.—Timber, iron, steel, wood pulp, butter, paper, matches, stone, iron and zinc ores.

COMMUNICATIONS.—Sweden has 8,594 miles of railroad, of which 2,746 are the property of the state. There are more than 20,000 miles of telegraph wires (exclusive of railroad telegraph wires) and 246,000 miles of

GOVERNMENT.—The government is a limited monarchy, hereditary in the male line of the House of Bernadotte. The excutive power is entrusted to a Cabinet or Statsråd, appointed by the King. The Riksdag or legislature consists of two Chambers, the First of 150 members elected for six years, the Second of 230 members elected for three years. Members of both Chambers are paid \$330 per session.

¹Esther Singleton, "A Guide to Great Cities" (1010).

DENMARK

(See Maps, p. 37, 39)

The present Kingdom of Denmark is but a shadow of its former greatness. In the eleventh century a Danish king (Canute) ruled over England, Denmark, and Norway; and in the thirteenth century Waldemar the Victorious extended his sway as far as Esthonia, now a province of Russia, and made the Baltic for a time a Danish sea. In the middle of the sixteenth century the Danish kingdom extended from the North Cape to the River Elbe, and included not only Norway but also the southern provinces of Sweden. Norway was lost to Sweden in 1814, and the duchies of Schleswig and Holstein were annexed by Prussia and Austria in 1864. These two duchies were subsequently annexed by Prussia as an outcome of the war with Austria in 1866.

In the treaty of Prague (1866) there was a provision that "the people of northern Schleswig, if by a free vote they should signify their desire to be united to Denmark, should be ceded to Denmark." The "free vote" was never taken, and in 1878 Austria agreed to the cancelling of the clause; while the Prussian Government has since pursued a policy of repression and Prussianization.

AGRICULTURAL LIFE.—The reorganization of agricultural methods has largely swept away the picturesque associations of Danish peasant life.

It is not so long since conditions in Denmark were just about as primitive as they are now in some other parts of Jacob Riis,1 whom I learned, while I was in Denmark, is just as widely known and admired in Denmark as he is in the United States, says that he can remember when conditions were quite different among the homes of the people. "For example," he said, "I recall the time when in every peasant's family it was the custom for all to sit down and eat out of the same bowl in the centre of the table and then, after the meal was finished, each would wipe the spoon with which he had dipped into the common bowl, and without any further ceremony tuck it away on a little

shelf over his head."

"To-day," he added, "Danish farmers wash their pigs. The udders of the cows are washed with a disinfecting fluid before milking. When a man goes to milk he puts on a clean white suit."

Not only is this true, but the Danish farmer grooms his cows, and blankets them when it is cold. He does this not only because it is good for the cow, but because it makes a saving in the feed. Although Denmark has more cattle in proportion to the number of inhabitants than any other part of Europe, I noticed very few pastures. On the contrary, as I passed through the country I observed long rows of tethered cattle, feeding from the green crops. as the cows have consumed all the green fodder, usually four or five times a day, a man comes along and moves the stakes forward so that the cattle advance in orderly way, mowing down the crops in sections. Water is brought to the cows in a cart and they are milked three times a day. All of this required a large increase of labour as well as constant study, care, and attention. In other words, the Danish peasant has become a scientific farmer.

One difference between the farmer in Denmark and in other countries is that, whereas the ordinary farmer raises his crops and ships them to the market to be sold, the Danish farmer sells nothing but the manufactured product, and as far as possible he sells it direct to the consumer. For example, until about 1880 Denmark was still a grain exporting country; in recent years, however, it has become a grain importing country. Grain and fodder of various kinds to the value of something like 25,000,000 of dollars are now

1 Jacob August Riis, Danish-American journalist and philanthropist (1849-1914).

annually purchased by Danish farmers in Russia and neighbouring countries. The agricultural products thus imported are fed to the cattle, swine, and chickens and thus converted into butter, pork, and eggs. The butter is manufactured in a cooperative dairy; the pork is slaughtered in a cooperative pork-packing house; the eggs are collected and packed by a cooperative egg-collecting association. Then they are either sold direct, or are turned over to a central cooperative selling association, which disposes of most of them in England. .

As a gentleman whom I met in Denmark put it: "If Denmark, like ancient Gaul, were divided into three parts, one of these would be butter, another pork, and the third eggs." It is from these things that the country, in the main,

gets its living.1

A NATIONAL ART.—Copenhagen is noted for its beautiful porcelain, an industry which dates from 1760.

It is a notable characteristic of the Danish people to fearlessly and continually allow their individuality its fullest scope. With this object in view, each artist, designer, painter, or sculptor in the factory is permitted a free hand to work out his own ideas. His work-rooms are as beautiful as his products. He is, indeed, a free and unfettered artist in the completest sense. Perhaps that is the reason why his productions, which may now be found in every museum or collection of any importance in the world, represent the highest type of modern national and creative art.

A Danish Chicago.—The little town of Esbjerg is off the beaten track of the Continental tourist. But this little "Danish Chicago" is the port from which large shipments of bacon, butter, and eggs are sent to the London market.

If you ask how the Danish farmers manage to keep pace with our increasing appetite for Danish eggs, butter, and bacon, the answer is—they cooperate. The butter which is exported is made in their cooperative dairies. The pigs are slain in their cooperative slaughter-houses, and the Danes are not a little proud of the process—one distinguished traveller complains that, during his stay in Denmark, he was always being asked to come and see a pig killed! The eggs are exported by coöperative export societies. If a Dane has only one egg, he can export it—always provided it be a good egg. No mistake must be made about that: before the eggs are packed for export, down in the cooperative factory on the shore, they are held over a basin, filled with electric light, when all defects can be detected with the naked eye. It is no use for an old egg to pose as a young one then. Each egg is marked with the owner's number and the number of his district; the owners of bad eggs are fined. No less than 18,000 Danes belong to this one society. Here, too, butter is packed for the English market.³

SYNOPSIS OF DENMARK

(See Maps, pp. 37, 39)

The Kingdom of Denmark consists of the islands of Zealand, Fünen (or Fyn), Laaland, and Bornholm. Iceland and the Faroe Islands in the North Atlantic are part of the kingdom. Iceland is noteworthy as containing the most northern group of volcanoes in existence, of which Hekla is the

the most northern group of volcanoes in existence, of which Hekla is the best known.

Boundaries.—Denmark is bounded on the north by the Skager-Rak; on the east by the Cattegat, the Sound, and the Baltic; on the south by Prussia; and on the west by the North Sca.

CLIMATE.—The climate is oceanic, and is mild for its latitude. Copenhagen has a mean temperature of 30.2°F. in Jan., and 60.8°F. in July, with a rainfall of 23.6 inches. Terrible storms often lash the coasts of Denmark. See Climate Map of Europe, pp. 24, 25.

Natural Productions.—The chief products are grain (oats, barley, and rye) and grass on which a large number of cattle and horses are raised

^{, 1}Booker T. Washington, "The Man Farthest Down" (1913). ^aW. J. Harvey and C. Reppien, "Denmark and the Danes" (1915). ^aF. M. Butlin, "Among the Danes" (1909).

for export. The production of dairy produce is so efficiently organized that it has become the principal industry of Denmark.

The lack of minerals explains the absence of any but small manufactures.

CHIEF TOWNS AND INDUSTRIES OF DENMARK

TOWN	POP. IN THOUSANOS	PRINCIPAL INOUSTRIES
AALBORG AARHUUS COPENHAGEN ELSINGRE ESBJERG HORSENS ODENSE RANDERS	34 62 560 14 19 24 43	Outport for grain, dairy products, f.sh. Outport for grain and dairy products. China, general trade. Shipbuilding. Dairy produce, cattle and sheep, agricultural seeds. Tobacco and general trade. Iron founderies, tanneries. Gloves, distilleries, railway carriages.

Capital.—Copenhagen, on the Sound. Population 560,000. Commerce.—Denmark commands an advantageous position on the sea route between the Baltic and the North Sea. Copenhagen does a consider-

able trade, but the opening of the Kiel Canal has tended to lessen the importance of the Danish capital. The chief trade is done with the United Kingdom, Germany, Sweden, the United States, and Russia.

CHIEF IMPORTS.—Cereals, oil-cake, coal, ironware, timber, woollens, ships, butter, skins.

CHIEF EXPORTS.—Butter, meat, animals, eggs, skins, fish.

Communications.—There are 2,200 miles of railway of which more than
1,200 are owned by the state. There are also 25,000 miles of telegraph

GOVERNMENT.—Denmark is a limited monarchy. The Rigsdag or legislature is composed of the Landsthing, or Upper House of sixty-six members, and the Folkesthing, or Lower House of 114 members. Members of both houses are paid about \$2.70 a day while the Rigsdag is sitting. Iceland has a legislature of its own.

Iceland has a legislature of its own.

Colonies.—The outlying possessions of Denmark include, besides the Faroe Islands and Iceland, *Greenland* (total area 830,000 square miles, icefree portion 50,000 square miles, population 12,968), the trade of which is a government monopoly. The three islands in the West Indies—St. Croix, St. Thomas, and St. John—were sold to the United States in 1917, and are now known as the *American Virgin Islands*. See Map, p. 93.

THE NETHERLANDS

(See Map, p. 38)

The Netherlands or Low Countries is a title now more appropriately limited to Holland; but it has embraced most of the two countries that in more than one characteristic merge into one another, and more than once have been polit-Well-known is the story of that gallant ically united. revolt against Philip II. of Spain by that band of "beggars" (Gueux)—as they styled themselves in proud humility—who for a generation held out against the greatest military power of Europe. In the end the northern provinces secured their independence and religious freedom, while the more submissive south remained with its Catholic masters.

In the middle of the seventeenth century the United Netherlands were the first commercial state and the first maritime power in the world, and for a long time maintained the mastery of the sea.

Both Holland and Belgium were absorbed in Napoleon's empire, and on his fall formed into a single kingdom, an arrangement which only lasted until 1830, when the southern provinces broke away and formed the Kingdom of

DUTCH LIFE ON THE WATER.—The boats, with the mills and the women's head-dress, are the outstanding features of Dutch life.

There is in Holland a life unknown elsewhere, or at least but badly known; it is the life on the water. You must visit this country to comprehend the touching melancholy of the Spiritus Dei ferebatur super aquas. Still, what floats on the waters is probably less the Spirit of God than of man, for in the Netherlands you are incessantly recalled to the feeling of reality. At all spots where nature had forgotten to place rivers or streams, Dutch industry has made canals. waterways lead not merely from one town to another, but even to each village, we might almost say to each country house; hence, such an arterial system could not fail to be marvellously favourable to the circulation of produce. An English traveller asked himself, two centuries back, whether there were not more people in Holland living on the water than on the land. As the majority of these canals are higher than the adjoining fields, and as they are concealed by dykes, at a certain distance off you can see neither water nor boats, but only the swelling sails, which have the appearance of making an excursion about the country. . where navigation has never been able to compete with the iron ways, but in the Netherlands the greater part of the carriage still continues to be effected by water; and this economic method will for a long time supply most wants. The services rendered elsewhere by carts are here performed by boats; the gardener himself pulls to market his boat laden with vegetables, fruits, or flowers, just as in the south of France a donkey is led along. . .

The boats specially employed for the passenger service are called *trekschuyten*. They are a species of gondola or water diligence. Along nearly the whole length, which is about 30 feet, runs a box or wooden house, frequently painted green; the roof, on which the sailors walk to perform sundry operations, being covered with a layer of pounded cockle shells. This house is divided into two compartments or cabins; the larger one, situated near the prow, is common to passengers and luggage. Here, during the winter, the worthy people, shut up as in a box, swim along in a cloak of tobacco smoke, which relieves the tedium of the voyage. In summer the wooden shutters are removed, and the hatch is raised from the orifice by which the travellers descend. The second compartment is the cabinet, called in Dutch the roef, which is entered through folding-doors. This second cabin is small, but fitted up with some degree of taste. The windows, four or six in number, are glazed and have red or white curtains, according to the season. In the centre is a table with a copper vessel containing fire, and another smaller one to receive cigar ash, both cleaned and polished in a manner only found in Holland. Add to this, to complete the furniture, a mat, a looking-glass, and, in winter for the ladies, a foot-warmer, called the stoof, containing a small earthenware vessel with two or three lumps of lighted peat in it. Along two sides of this cabin run cushioned benches, on which the travellers sit down opposite to each other. Sometimes there are on a shelf a few volumes belonging to the boat and forming a floating library at the service of the studious passengers. The whole national character is revealed in this simple and minute attention to comfort. At the bows, the space not occupied by the cabinet is filled with merchandise, bales, and barrels; while the poop is left to travellers who wish to take the fresh air, and the helmsman, who steers and smokes the while with the regularity of a steamer.1

Amsterdam.—The first view of Amsterdam is a surprise to one unfamiliar with Holland. The combination of curious buildings, canals, and bridges, streets, and boats impresses him strangely, and the word quaint constantly rises to his lips as he walks about. At times he seems to be transported to the Middle Ages, and is annoyed when such anachronisms as tramcars, telephones, and advertisements of commercial companies that unite the uttermost parts of the earth, impertinently remind him of the achievements of modern science and that he is living in the Twentieth Cen-

One is struck by the absence of horses and vehicles drawn by horses. Cabs rattle by over the very rough cobble stones that pave the streets, postal wagons thunder along, and conveyances and 'buses from the hotels and private equipages are occasionally seen. The bakers and butchers

¹A. Esquiros, "The Dutch at Home" (1863).

and candlestick-makers and all other purveyors appear to deliver their goods by means of a box mounted on a bicycle worked by a boy. The streets are full of little carts or booths presided over by a gentleman in white, who sells ice-cream and sweet cakes. Sometimes the canopy of these booths is gaudily painted. Occasionally there flits by a curious figure clad in black. He wears low shoes and knickerbockers, a long-tailed coat, and a shovel hat! It is a Lutheran preacher—and notwithstanding his solemn face, you feel that his right place is on the boards of the Opéra Co-mique. Another strange figure passes by you—an old woman who wears a brass helmet upon her head! This is, I fancy, the most singular of all singular head-dresses. seems to be in three pieces, one fitting tightly over the back of the head down to the neck, the two others above the ears. This metal plate gives one the unhappy impression that the poor thing's head or neck has been broken and that the surgeon has done the best he can for her. Underneath this helmet she usually has a frill of lace or muslin, and above it she not unfrequently wears a bonnet which is Holland's interpretation of the latest Parisian confection of lace, ribbon, velvet, feathers, or flowers. If the lady is in mourning, the bonnet is of crape!1

SYNOPSIS OF THE NETHERLANDS

(See Map, p. 38)

Boundaries.—The Netherlands is bounded on the north by the North Sea, on the east by Germany, on the south by Belgium, and on the west

by the North Sea.

CLIMATE.—The climate is oceanic, of a prevalently moist character. The average annual temperature is 50°F. The summers are not very warm, the winters seldom very cold. In Amsterdam the mean temperature in January is 35.6°, in July 64.4°F. Rain falls on 147 days in the year; the annual rainfall is 30 inches.

annual rainfall is 30 inches.

The days are generally dull, misty, and damp; a week of bright weather is a rarity. The Netherlands in general is healthy; but Zealand and the other western districts, in which clay and mossy soil prevail, suffer from marsh fevers. See Climate Map of Europe pp. 24, 25.

NATURAL PRODUCTIONS.—About one fourth of Holland is below sealevel, the sea being kept out by dyker, and the land, parcelled out into almost water-tight inclosures called polders, is kept dry by constant pumping of windmills of steam engines. In no other country is wind so much utilized of windmills or steam engines. In no other country is wind so much utilized as a source of energy. These reclaimed areas form valuable pastures for cattle; hence the making of butter and cheese is one of the leading Dutch industries. The cultivation of bulbs, especially around Haarlem, is a characteristic industry. The higher lands are on the whole very fertile and produce various grains. Wheat, however, is grown to a less extent than in Palairum Belgium.

MANUFACTURES.—There are practically no minerals in Holland, and this

fact has caused the country to rank much lower among manufacturing nations than was the case before coal and iron formed the chief basis of industry. Textile fabrics are manufactured; while Delft has tong been famous for its fine pottery.

CHIEF CITIES AND INDUSTRIES OF THE NETHERLANDS

сіту	POP. IN	PROVINCE	PRINCIPAL INDUSTRIES
AMSTEROAM ARNHEM DELFT DOEDRECHT GRONINGEN* HAARLEM HAGUE, THE* LEEUWARDEN LEIDEN MAASTRICHT* NIMEGEN	567 64 34 46 75 69 271 37 58 37 55	North Holland Gelderland South Holland South Holland Groningen North Holland South Holland Friesland Fouth Holland Gouth Holland Gouth Holland Gouth Holland	Dye works, tobacco, sugar, coffee. Woollens, paper, soap, furniture. Pottery, carpet weaving. Timber. Flax spinning, rope making, dycing. Dyeing, printing, cottons. Iron easting, furniture, liqueurs, lithographing. Iron foundries, copper works, furoiture. Linens, woollens. Quarries, glassware. Beer, leather, tin, pottery.
ROTTEROAM TILBURG UTRECHT*	55 418 50 119	South Holland North Brabant Utrecht	Liqueurs, sugar, machine works. Linens, woollens. Worsted and velvet carpets.

*Capital of province.

CAPITAL.—The Hague, population 271,280. COMMERCIAL CAPITAL, Amsterdam, on the Y, an arm of the Zuider Zee. Population 566,131.

CHIEF PORTS.—Rotterdam, Amsterdam, and Flushing (Vlissingen).

COMMERCE.—Holland is the "colonial grocer" for Europe, and is one of the leading commercial nations of the world. Her position at the mouths of the Rhine and Maas has led to a very considerable transit trade, as well as to the growth of trade at Rotterdam. These facilities for trade led to the maritime power of the Netherlands, which was very extensive in the seventeenth century, as well as to their colonial acquisitions.

CHIEF IMPORTS.—Coal, iron, steel, copper, textiles, cereals, flour, coffee, mineral oil, rice.

mineral oil, rice.

CHIEF EXPORTS. Colonial produce, butter, cheese, margarine, iron, steel, textiles, drugs.

COMMUNICATIONS.—There are about 2,000 miles of railroads, and 4,200 miles of telegraphs. The North Holland Canal and the North Sea Canal

GOVERNMENT.—Holland is a limited monarchy. The executive is vested in the sovereign, and the legislative authority in the sovereign and the States-general, the latter sitting in two chambers; the First, of 50 members, elected for nine years; the Second, of 100 members, elected for four years. Members of the First Chamber are paid \$4.07 a day during the session, and those of the Second Chamber \$830 per annum and travelling expense

those of the Second Chamber \$830 per annum and travelling expenses.

COLONIES.—The Dutch colonies are sixty-four times as large as Holland, and consist of some of the richest regions in the world. The Dutch East Indies extend from Sumatra to New Guinea, and export sugar, coffee, tea, spices, tobacco, petroleum, etc., which are shipped almost exclusively to Rotterdam and Amsterdam in the first place. Batavia in Java is the most important seaport. The Dutch West Indies include Surinam or Dutch Guiana in South America, and the island of Curação with its dependencies.

BELGIUM

(See Map, p. 38)

Belgium has been rightly named the "cockpit of Europe," for time and again its soil has been drenched with blood in wars not of its seeking.

On the overthrow of Napoleon the Southern Netherlands with Luxemburg were united to the kingdom of Holland, as the kingdom of the United Netherlands. The experiment was a failure. The Belgians revolted and formed themselves into an independent and sovereign state in 1830. Before Holland would recognize Belgium's independence, Belgium had to give up the eastern half of Luxemburg (now the Grand Duchy), and the portion of Limburg that lies east on the Meuse.

The international status of Belgium was determined by the treaties of 1831 and 1839. The treaty of June 26, 1831, provides that Belgium shall form a perpetually neutral state, and that the powers should guarantee that perpetual neutrality. A further treaty of November 15, 1831, contains the following passage:

Article 7. Belgium, within the limits fixed by Articles 1, 2, and 4 shall form an independent and perpetually neutral state. She shall be bound to observe the same neutrality toward all other states.

Lastly on April 19, 1839, a final treaty concluded between Belgium and Holland reproduced this provision, and the

1 Esther Singleton, "Holland" (1906).

great powers, Austria, France, Great Britain, Prussia, and Russia, acceding to the treaty, declared that all its articles "are placed under their guarantee."

Belgium therefore is a neutral state; and under international law neutral territory is inviolable. Her neutrality is permanent, determined upon and decreed by Europe, and accepted by Belgium.

The Franco-Prussian War (1870-71) exposed Belgium to serious perils. England simultaneously approached France and the North German Confederation, and required them to make a formal declaration that Belgian neutrality would be respected, threatening, if that neutrality were violated, to intervene in the war. The belligerent states thereupon bound themselves by fresh treaties to respect Belgian neutrality.

For more than eighty years Belgium, relying on these solemn treaties, followed the paths of peaceful progress, and made herself illustrious in the arts, in commerce, and in industry. But on August 3, 1914, the peace-loving kingdom found the invading hosts of Germany at her gates, demanding the right of passage to attack a friendly neighbour; for Belgium forms the easiest route for an army between Germany and France. Belgium, conscious of her right and

obligations, resisted these imperious demands, refusing to look upon the various treaties as "scraps of paper" (so designated by the German Chancellor).

For thus opposing a relentless foe, Belgium once more became a blood-drenched "cockpit." Her fair cities and villages were ravaged and laid desolate; her population was enslaved; and for more than three years all that remained of free Belgium was a narrow strip on the western seaboard, resolutely held by the fragment of her army supported by her Allies.

BURGHER LIFE IN BRUSSELS.—In the home of the Brussels citizen the typical life of the Belgian people is perhaps best revealed. Leaving aside the very small stratum of what may be called Society, the mode of life among the great body of citizens above the working classes is very much the same, in spite of differences of income, occupation, and education.

Whether the head of the household be a lawyer or a trader, a manufacturer or a shopkeeper, who is well enough off to live away from his shop, there is less class difference, so far as the daily routine of life goes, than would be found in any other European community. The explanation is, that at heart the Belgians are a simple people, whose chief characteristic, strengthened by harsh experience for many generations, is thrift. There is a complete absence of all ostentatious display. It would be as impossible to estimate a man's income from the interior of his house as it would be to assign his profession or business from his appearance in the street. This appearance of equality is very largely due to the two not disconnected facts, that the first object with every Brussels citizen is to become proprietor of his own house, and that the houses of Brussels are built very much after the same pattern. This, of course, does not apply to the fashionable boulevards or the Avenue Louise, but in all the by-streets and suburbs now spreading out in every direction, houses are being run up, lofty and narrow, all seemingly fashioned by the same architect. The Belgians have an aversion to being mere tenants, regarding the payment of rent as so much loss of money; and a house, or the money to purchase one, is considered the best kind of dot that a young woman can bring to her husband.

It is only on entering these houses that some idea can be formed of the status of the occupant. Among these families whose income is not in proportion to the exterior of their residence, the interior will reveal the fact by its bareness and absence of decoration, whereas those who are comfortably off will expend large sums on painting and gilding. The Belgians are noted for their good taste in the way they decorate the inside of their houses, and as the house is really theirs, they do not mind spending very considerable sums in this way. It is the same with the furni-ture, which is always as good as the owner can afford in the reception rooms. Every Belgian house has what may be called its show-rooms, and their contents will give the clue at once to the degree of prosperity the family has attained. There may be a thousand pounds' worth of furniture and objets d'art in the room, or there may be only ten pounds' worth. In either case it is the best that the owner can

show. There is one thing that these rooms have in common, no matter what the position of the occupant, and that is the air of being rarely used. It is more like the model-room into which the furniture provider invites his customer for the purpose of deciding the style in which he proposes to furnish, than an actual living-room. The Belgian's first investment is to buy his house, and his second is to lay in a stock of furniture. As both are intended not merely to last a lifetime, but to be handed down in the family, the most scrupulous care is taken of every article. A shade of anxiety may be traced on the worthy owner's face if a visitor moves

penetrate, but the casual opportunities afforded during long residence in the country enable one to see that they are very bare and plain. As a rule, the dining room is in close proximity to the kitchen, so that the necessary domestic service is reduced to a minimum. There is, of course, in most houses a dining room upstairs, but this is only used on the very rare occasions when an entertainment of some sort is

The Belgians are not prone to the display of much hospitality among themselves. They do not dine often at one of the same family meet another's houses. The members of the same family meet occasionally, but, as a rule, their dinners in common are to celebrate some family event, such as a marriage, or an engagement, or a first communion. The case is practically unknown of taking a friend home to have 'pot-luck.' To do so would seriously disconcert the lady of the house, who is probably in négligé until she goes for her afternoon prome-

EMPLOYMENT OF DOGS.—The dog largely takes the place of the horse in Belgian industrial life. One of the familiar sights in the cities of Belgium are the little milk-carts drawn by big powerful dogs.

Leaving aside the broad and comprehensive question as to whether dogs were ever intended by nature for draught work . . . I think it may be safely assumed that the employment of these big dogs in the little milk-carts of Belgium is free from positive cruelty. This remark also applies to the same kind of dog employed by the greater number of the laundresses, and by some of the bakers. But as it is permissible by the law of the land to use dogs for draught— or as they are called *chiens de trait*—it follows that the poor or the lazy use any and all dogs, big or small, well-fed or ill-fed, to drag their cars and carts carrying their goods for sale, and not infrequently themselves.

In the strict economy of the Belgian social system dogs have no right to existence except as beasts of burden. rich may indulge themselves with the luxury of a chien de maison (house dog) or a chien de chasse (hunting dog), but for the Belgians who work, from the peasant to the shopkeeper, a dog has no other interest or value than as a fellowworker and obedient slave. It is the inevitable concomitant of this practice that cases of cruelty must be frequent, and that the wretched condition of many of the dogs so employed leads to a general condemnation of Belgian character as indifferent to animal suffering and as tolerating a system from which a greater or less degree of cruelty is inseparable.1

SYNOPSIS OF BELGIUM (See Map, p. 38)

The Kingdom of Belgium is the smallest and most thickly populated country in Europe. Its shores are flat and low, like those of Holland; the middle of the country is level and fertile; in the east there are hills and mountains, the principal being the Ardennes. The chief rivers are the Scheldt and the Meure (called by the Dutch the Maas). The mouths of both these rivers are in the hands of the Dutch.

BOUNDARIES.—Belgium is bounded on the north by the Netherlands, on the east by Germany, on the south by France, and on the west by the North

CLIMATE.—The climate of Belgium is temperate. On the coast it is mild and equable, though moist; but in the Ardennes, on the other hand, the extremes of heat and cold are considerable. Brussels has a mean temperature of 50°F. (in Jan. 37.4°F., and in July 64.4°F.). See Climate Map of Europe,

pp. 24, 25.

NATURAL PRODUCTIONS.—The country may be divided into three parts: (1) In the northwest near the coast is a small area which is protected by embankments, which is utilized mainly for dairy farming. (2) Between this strip and the highlands beyond the Sambre-Meuse valley is a lowland region, the greater part of which is a continuation of the plain of France. In this district are raised crops of flax, sugar beet, rye, oats, and wheat. (3) South of this valley are the uplands (the Ardennes), which are of less agri-

South of this valley are the uplands (the Ardennes), which are of less agricultural importance.

MINERALS.—Belgium is rich in minerals, and next to England is the greatest coal-producing country in Europe. There are two great coal-fields along the valleys of the Meuse and Sambre. Iron is obtained in large quantities. Zinc and lead are also produced.

MANUFACTURES.—Belgium has considerable manufactures, the chief of which are cotton, linen, woollen, silk goods, and machinery. Other industries are collieries, quarries, gas, lace, distilleries, etc. The success of the manufacturing industries is attributed, to a certain extent, to the high standard of technical education prevailing. standard of technical education prevailing.

¹D. C. Boulger, "Belgian Life in Town and Country."

CITIES AND INDUSTRIES OF BELGIUM

CITY	POP. IN THOUSANDS	PROVINCE	PRINCIPAL INDUSTRIES
ALOST ANTWERP* BRUGES* BRUSSELE* CHARLEROY COURTRAI GHENT* LIÉGE* LOUVAIN MECHLIN MONS* NAMUR* OSTENO SZAINT-NICOLAS SERAING	35 969 53 177 28 36 166 175 42 59 28 32 42 35 41	East Flanders Antwerp West Flanders Brabant Hainaut West Flanders Liége Brabant Antwerp Hainaut Namur West Flanders East Flanders Etabant Liége East Flanders Liége Hainaut	Thread. Grain, hides, woollens. Lace. Lace, carpets, gloves. Glass, iron works. Cottons, linens. Linens, cottons. Firearms, iron goods, woollens. (Louvain University.) Lace. Iron goods. Glass. (Watering place.) Cottons, woollens, linens. Machinery, iron goods. Hosiery, woollens, carpets.
VERVIERS	47	Liége	Woollens.

*Capital of province.

CAPITAL.-Brussels. Population 177,078, with suburbs 720,347.

CHIEF PORTS.—The only large port is Antwerp, on the estuary of the Scheldt. Ostend is a packet station.

COMMERCE.—Belgium being essentially a manufacturing country is largely dependent upon foreign countries for its supply of food. Most of its maritime trade is carried in foreign bottoms, the mercantile marine consisting of little more than 100 vessels.

CHIEF IMPORTS.—Cereals, flour, wool, timber, flax, resins, skins, seeds, coffee, chemicals, iron, steel, coal, cotton, machinery, cottons.

CHIEF Exports.—Iron, steel, cereals, flour, machinery, skins, linen thread, diamonds, flax, coal, glassware, zinc, sugar, cottons, woollen yarn.

Communications.—There are 2,950 miles of railroad, 5,000 miles of telegraphs, 1,360 miles of navigable rivers and canals, and 6,100 miles of roads.

Government.—By the constitution of 1831, following the secession from the Netherlands in 1830, Belgium was declared to be a constitutional and hereditary monarchy. The executive power is vested in the King, and his ministers, the legislative power jointly in the King, Senate, and Chamber of Deputies. The Senate of 120 members is elected for eight years. The Chamber of Deputies consists of members elected for four years, in the proportion of one to every 40,000 inhabitants. One half retire every two years. Each deputy receives 4,000 francs (\$800) yearly, and travels free.

FRANCE

(See Map, p. 40)

The realm of France was foreshadowed in the division of the empire of Charlemagne at the death of his son Louis the Pious by the treaty of Verdun in 843 (see Map of Empire of Charlemagne, p. 47). The kingdom of the West Franks, formed by that division, and finally separated from the Frankish Empire in 887, included all the territory west of the Scheldt, Meuse, Saône, and Rhone. The foundation of France dates from the year 987 when the accession of Hugh Capet permanently brought the crown of the West Franks to the family of the Dukes of the French, or Francia, the chief seat of whose power was Paris. "France" meant the territory immediately subject to the Parisian house; but its use spread with every extension of their authority. To the south and southeast a natural limit was opposed to this expansion by the Pyrenees and the Alpine watershed; in the east and north no such natural boundary exists. France had aimed at the Rhine as a natural frontier on the east, and this ambition was realized by the treaty of Westphalia in 1648.

ALSACE-LORRAINE.—Taking advantage of the political disunion of the German and Italian nations, Napoleon extended the boundaries of France and reorganized Germany and Italy as French dependencies. With the birth of a united Italy, the southern frontier of France was once more contracted; while the disastrous war with Prussia in 1870-71 placed Alsace-Lorraine in the grip of the master empire-builder Bismarck. This sacrifice of territory was not made without a protest from the representatives of the departments about to be given up. But the victor was not to be denied his coveted spoil.

The question of Alsace-Lorraine has been at the root of the entire foreign policy of France for the last forty-four years. It was this question which created and kept alive the antagonism between the Republic and the German Empire. But for it, the two great neighbours might perhaps have come to terms. The defeat of the Imperial armies in 1870 would have been but a wound to self-esteem which the change of political régime would have quickly healed. The loss of 5,000,000,000 francs, and even of more than this, would soon have been compensated by renewed material progress.

But when Bismarck forced the nation to give up a population eager to remain French, he laid upon her the obligation of a war to the knife, such as the desire for revenge must entail. When he compelled vanquished France to cede a million and a half of her children as the price of peace, he created a debt of honour for the mother country which a

chivalrous people would have held it ignominious to forget.

Alsatian Frugality.—The frugality of the Alsatian peasants is remarkable. A traveller who spent a night at a village inn in Alsace gives an interesting picture of the more intimate side of Alsatian life.

I stopped at an inn—the best as it seemed, and this was poor indeed-but as I had not the least expectation of falling into the lap of luxury at such a place, I was well enough pleased at the prospect of sleeping upon a chaff bed, being in no mood to tramp the country any more that night. Outside the door a father and son were sawing a tree into logs. The youth was of that pleasing Alsatian type which, to a large strong body, unites a large strong head with curling yellow hair, blue candid eyes, and a broad, honest, kindly face. The interior of the inn was roomy and dreary. Poverty made itself felt there, and this is depressing, especially to one who has only taken during the day a scratch meal in the forest, and whose mind is now dwelling on thoughts of dinner with a fervour which may be debasing, but which is at least capable of explanation. After some parleying as to the resources of the larder, it was agreed that I should commence with soup and finish with salad, with an omelette between, to serve—I thought—as a buffer. The soup turned out to be bread and milk. It was a long time since I had eaten this food of the ancient Scythians, but I did not quarrel with it. The omelette was an indigestible bolus, but I took this also in good part, after reflecting upon the advantage of keeping it by me as a check to a keen appetite for the next day or so. The salad left nothing to be desired except olive or nut-oil, the oleaginous fluid with which it was mixed being suspiciously like colza. For a moment I pined for the South of France, where one can always have good oil, although the salad may be dried up. If the food at this inn was open to criticism, there was nothing to say

against the white wine.

While I was trying to persuade myself that I was fast becoming a model of frugality, the poor family with whom my lot had cast me for the night gathered around a board—literally one—a few yards from mine. No plates were laid upon it, but in the centre was a large earthen pan, containing nearly a peck of potatoes cooked in their skins. The family consisted of the innkeeper and his wife, the young man already mentioned, and several children. While I was wondering why I had not been offered any potatoes, parents and children stood up and made the sign of the cross as the youngest child—a little girl of eight—began to say grace. It was in the Alsatian dialect, and I could hardly catch a word of it. It lasted several minutes. I was much impressed by this scene. The meal for which these people

¹P. A. Helmer, in "The War of Democracy" (1917).

thanked God so earnestly and reverently was merely potatoes and water. There was better food, but they did not consider themselves justified in eating or drinking otherwise than as I saw them. The meal was over in twenty minutes, and then father and son returned to their sawing. How can they keep up their strength with potatoes and water? I asked myself, and others may ask the same question. The answer is, because they lead natural lives and have healthy bodies. . . . A more manly and vigorous set of men than the Alsatian peasants is not to be easily found, and yet the quantity of meat which they eat is so small that they might do without it altogether without feeling any physical loss. They have been bred to frugality, and here

lies their strength.

The floor of my bedroom was very black, but the walls were much ornamented with lithographic works of art, all religious in character. The furniture was more than sufficient, for there were some benches and a long deal table, at which twenty could have dined comfortably. The bedstead was so short that I should certainly have kicked the lower board out had it not been designed to resist unusual pressure. There were no blankets—a peculiarity of the Alsatian inns. The substitute is what the French call édredones [eider-down quilts]—in Alsace great bags of goosefeathers. They are piled one upon another, whether the season be winter or summer, so that a bed ready to be slept in is unpleasantly suggestive of the fate of Desdemona. He who wishes to sleep without dreaming of mountains settling upon him and bearing him down into the lowest depths must throw some of these bags upon the floor—all of them if the weather be hot. Alsace is likewise remarkable for the number and lustiness of the fleas which haunt the village inns. At Ober-Steinbach these entertaining insects galloped over me until daybreak, when, they getting tired, I fell asleep on my chaff bed.¹

A BIRD'S-EYE VIEW OF FRANCE.—In France everything speaks of long familiar intercourse between the earth and its inhabitants; every field has a name, a history, a distinct place of its own in the village polity; every blade of grass is there by an old feudal right which has long since dispossessed the worthless aboriginal weed.²

For a bird's-eye view of France we can not do better than glance over its chief river basins, connected, as they often are, by a network of well-used canals. Crossing twenty miles of sea to land at Calais or Boulogne, perhaps as well known to Englishmen as to Frenchmen of this generation, we find ourselves in the mainly flat northwestern corner, where are grouped some of the chief manufacturing cities, Lille, the largest of them, with over 200,000 people, Roubaix and Tourcoing growing apace on the Belgian border, near which the old port of Dunkirk was once a den of Channel pirates. Here is one of the great French coal-fields.

To the south the Picardy province is the basin of the Somme, on which stands Amiens, famed for its cathedral and for its manufactures; then lower comes Abbeville; and at the mouth St. Valery claims to be the port from which William the Conqueror sailed for England, an honour disputed by another St. Valery on the Norman coast. On the north side the name French Flanders shows how the frontier here is an artificial one, and this region is drained into Belgium by the Scheldt. Farther east we come upon the upper basin of the Meuse, where the Belgian Ardennes cross into France, and the best-known modern place is that unlucky Sedan, a fortress close to the frontier.

To the south of this hilly country the upper courses of the Marne and the Seine water the dusty plains and slopes of Champagne, in which are Rheims—at whose cathedral the French kings were crowned—the great military camp of Châlons-sur-Marne, and, farther south, the considerable city of Troyes among others of fame. The celebrated wine is chiefly made in the central Marne department, but the demand for it is so great that it seems hard to say whence comes most of the so-called champagne. Westward, on

the northern edge, in Lorraine, we reach the basin of the Moselle, whose noble ex-capital, Nancy, still belongs to France; but half of this province and all of Alsace, between the Vosges and the Rhine, have been shorn away, a scar not yet skinned over, either in the heart of France or of the people, though by race and speech these borders are more German than French. An old division between the two nations is hinted at in opposite banks of the Saône and the Rhone being still distinguished by boatmen as royaume [kingdom] and empire.

Turning now along the eastern side, we follow the Saône and its tributaries flowing through the old Burgundy and Franche-Comté between the Jura and the wine-growing heights of the Côte d'Or. The chief place in this basin is Dijon, and in its eastern mountain region the fortress-city of Besançon. The Saône loses its name where the Rhone masterfully rushes into it from the Lake of Geneva, their confluence being at the stately city of Lyons, whose silk-weaving industry has made it the third in France, with 523,000 people, who more than once have shown a disposition to resent the supremacy of Paris. Not far off, at the head of the Loire basin, coal and iron are making St. Etienne

a French Birmingham.

From Lyons the navigable Rhone, following the southward course of the Saône, takes us through the plains of Languedoc, shut in on one side by the low bare Cevennes, fastnesses of persecuted Protestantism, and by the limestone freaks of the Causses; on the other side more grandly walled by the Alps of Dauphiné, in which Grenoble is one of the dignified cities of France, and, higher up, in Savoy, the chain is pierced by the Mont Cenis tunnel, France's chief gate into northern Italy. Many old towns stand on or about the river, the most famed among them Avignon, at one time seat of the exiled Popes, amid scenes famed by Petrarch; and Orange, once an independent principality, which sent forth a brood of princes to be thorns in Rome's side. Nîmes is notable for its well-preserved amphitheatre, and in the neighbourhood the Pont de Garde shows one of the most impressive legacies of old Rome; Tarascon has been renowned by a writer to whom his fellow-Southerners bear little gratitude; while Aix, seat of the Counts of Provence and their troubadours, figures as the "Plassans" of another much-read novelist. At Arles, celebrated for Roman remains as for a strain of Roman beauty in its daughters, the Rhone divides into two main branches, enclosing the marshy delta of the Camargue, whose most wholesome production is salt made from its lagoons. Several "dead cities" here delight artistic eyes.

But the chief port of all France is Marseilles, an ancient Greek colony that preserves the name Massilia, as Province does for the Provincia from which Roman civilization spread over Gaul. Finely situated on the Gulf of the Lion, Marseilles has half a million of people gathered from all the territories of France, strongly tinged with a hot blood that gave this city a special part in the national history. Farther west comes Toulon, the Mediterranean naval port; then a beautiful mountain coast-land shelters the genial Riviera resorts, chief among them Nice, birthplace of Garibaldi, an Italian city indeed till half a century ago, when the French frontier was pushed from the Var to the gorge of St. Louis at Mentone. Between Nice and Mentone the tiny independent principality of Monaco invites headachy lotuseaters to its Monte Carlo gambling-palace, but for which this sunny spot, basking under the lofty precipices of the Corniche,

might be the choicest winter resort in Europe."

STILT-WALKERS OF THE LANDES.—A traveller gives the following account of an excursion among the stilt-walkers of the Landes:

Not long since, while at Bordeaux, I had an opportunity to go among the stilt-walkers, whose country is called the desert. It is little known even to Frenchmen. There is not much to attract in that vast barren tract, supposed to have been a former bed of the sea, wave-like in its surface, shifting sands upon fixed sand, patches of cultivation, and

¹E. H. Barker, "Wayfaring in France" (1890).

²Edith Wharton, "A Motor-flight through France" (1908).

¹A. R. Hope Moncrieff, "The World of To-day" (1906).

forests here and there; now and then a bog; occasionally a horizontal plain crossed by a black-looking stream in a gully; and a few far-scattered villages, or groups of unwalled sheds such as might be met with by the traveller in Central

Yet in the dullness and dreariness a charm exists, which changes to absolute wonder when an inhabitant comes upon the scene—a queer creature clad in sheep-skins, mounted on a pair of wooden supporters reaching to his knees, and strapped to them and to his ankles—his scanty flock of sheep nibbling at almost invisible herbage. From the Garonne to the Adour, and from the Gelise to the Bay of Biscay, these tracts extend; parts are half cultivated, others are hopeless gravel, some are reclaimable sand, but all are hostile to grain crops of any description. The small herds of cattle are composed of beasts so small and thin, that they appear to have been starved out of their natural size.

A peasant's abode, which I visited, was neither a hut, tent, nor cottage, but a thatch, extending from the trunk of a living tree, supported at the four corners by poles of pinewood, open to all the winds that blow, and fenced about, for a foot in height, by loose stones or blocks of half-burned Every shepherd of the Landes has several stations, which he calls his homes; for pasture will nowhere suffice

for more than a few days as the food for a flock.

Each morning he rises, just as the day is dawning, and puts on those quaint leggings called stilts, 6 feet 6 inches high, raising his feet about two-thirds of that altitude from the ground and enabling the wearer at once to follow his flocks, to defy wolves, and to pass from one oasis to another with great swiftness. No horse in that region can beat him. At a first glimpse of these fellows on a misty morning balancing their long poles and taking yards at a stride, I thought of so many spectres of the Brocken, so giant-like and supernatural did they appear.

The stilt of the Landes is not simple in its build. You have the "upright" to begin with, then a jutting piece of wood two-thirds of the way up, with a strap, and another leathern band for the knee; it is shod with leather to prevent sinking too deep in the sand and slipping on the clay. This mode of locomotion is practised by the inhabitants from the

earliest childhood.

Paris.—Paris, the capital of France, is the third largest city in the world and the largest city on the Continent. The French certainly have reason to be proud of their metropolis, for not only is it a magnificent city, but its influence is felt throughout the civilized world. In fashions of dress Paris reigns supreme; in politics the provincial towns of France follow the lead of the capital; while no European court can afford to neglect French opinion.

Paris is built on both banks and on two islands of the Seine, and is surrounded by a double line of walls with bastions, and further protected by a ring of detached forts. Round the walls are finely planted walks encircling the city; these are the exterior boulevards. The inner boulevards consist in their finest part of a broad thoroughfare bounded on either side by a row of trees and a broad pathway, and lined with elegant shops and mansions. The whole forms a scene of animated gaiety and splendour unequalled by any other city.

Motoring in Paris.—It is said all good Americans go to Paris when they die, but no motoring American will wait till the hereafter if he has half a chance to go there now. In saying this it is fair to add that I am going counter to the opinion of friends who have motored in France. When they reached Paris they stored their automobile and resorted to 'buses and taxicabs; they thought it too dangerous to motor on the capital's crowded thoroughfares.

It is true that amid the congested traffic of one of the world's largest cities one needs steady nerves and a cool head, but even on the Boulevard des Italiens and the Avenue

de l'Opéra we experienced no special difficulty; and there was keen delight in watching that wonderful stream of vehicles, of horses, of humanity, and of being for the moment an atom in that great stream, mingling with it, a part of its life, of its infinite variety! Such a stream is to be seen in only two or three of the world's largest cities, and even in them-in New York and in London-the scene is not so variegated, so animated, so picturesque as it is on the great boulevards of Paris.

The hotel we went to was near the Opera House, so was the garage, and it took but a few minutes after dinner each evening during our stay to get the Get-There (as we called our car) and plunge into one or the other of the animated streams which begin at the Place de l'Opéra and radiate thence in a dozen different directions to the farthest extremities of the metropolis. During the ten days that we were thus tempting fate, and, according to our friends who stored their automobile and rode in 'buses, that we were running the risk of all sorts of accidents, we had not a single mis-hap, not a breakdown, not a scratch. Even our lamps came out of the ordeal unscathed, although there were moments when the long line of vehicles hesitated and halted, and it required skilful handling to avoid collision with the driver

just ahead or just behind us.

One thing did happen during those ten days, but that was funny rather than serious. I was arrested. It was one afternoon on the Boulevard des Italiens. While Beamer stepped into the bank, and while I waited her return, seated in the Get-There in front of the Crédit Lyonnaise, a policeman approached, touched his cap in polite salute and said it desolated him inexpressibly, but that he was obliged to place me under arrest! Why? Because my motor was smoking. I looked around, but not a bit of smoke did I see. "Ah, Monsieur, c'est vrai (that is true), but that is because the motor is now resting. But a while ago! Mon dieu, yes, it was then that Monsieur's motor smoked. I saw it. I followed. And now, Monsieur, be so good as to give me your address."

I gave it. "What next?"

"Nothing, Monsieur. C'est tout" (that is all).

"But you so id I was an also areas?"

"But you said I was under arrest?"

"Mais oui (yes) but for the present c'est tout. Monsieur is at liberty to proceed!"

And giving another polite salute, the policeman took his departure. At the hotel that evening we were told that in a week or ten days there would be left at the hotel a summons to appear before a magistrate, who would probably fine me

five francs.
"But we shall not be here after this week."

"Ah, in that case, Monsieur, they can not fine you."
And that was all there was to it. After my "arrest," which detained us less than ten minutes, we continued our drive to the Place de la Bastile, in doing so passing through the eight principal boulevards of Paris—the Boulevards des Italiens, Montmartre, Poissonière, Bonne Nouvelle, St. Denis, St. Martin, du Temple, and Beaumarchais, and thence to Napoleon's tomb by the Boulevards Henri IV. and St. Germain. Any one who can without mishap conduct an automobile along this route between three and six o'clock in the afternoon can fairly claim to know how to drive a motor car. Such a jam of men, horses, and automobiles is to be seen nowhere else in the world; in London there is as big a jam of men and horses, but Paris has more automobiles, and they rush about without the least regard for speed laws or the safety of pedestrians. Were it not for the little "islor the safety of pedestrians. Were it not for the little "islands" stationed at intervals in the centre of the streets it would be quite impossible for a pedestrian to cross a Paris boulevard. As it is, he must watch his chance to dart over to the island; there, under the sheltering wing of a tall lamppost, standing on the raised circle around its base, he must watch the stream of humanity going the other way on the other half of the street and wait for a gap through which to dart across to his destination. If he is timid and waits for too big a gap he may stand by that lamp-post an hour; but after one has been in Paris a while one ceases to be timid in

such matters. Every one seems to be rushing across the boulevards, almost under the horses' hoofs or the automobile

wheels, and everybody-or nearly everybody-gets across

alive; so you, too, soon find yourself willing to take chances.

Marseilles.-Marseilles is not only the largest port of France, but also the chief commercial port on the Mediterranean. It competes with Trieste and Brindisi in its Oriental passenger trade. The capital of southern France has a distinct character of its own.

To-day, as three thousand years ago, Marseilles may be called the threshold of the East. In these hot, bustling, noisy streets, Paris is quiet by comparison; London a Trappist monastery! Orientals, or what our French neighbours call exotics, are so common that no one looks at them. Japanese and Chinese, Hindus, Tonquinois, Annamites, Moors, Arabs, all are here, and in native dress; and writing letters in the salon of your hotel, your vis-à-vis at the table d'hôte, your fellow sightseers, east and west, to-day as of old, here come into friendly contact; and side by side with the East is the glowing life of the South. We seem no longer in France, but in a great cosmopolitan mart that belongs to the whole world.

Superbly situated, magnificently endowed as to climate, the chef-lieu of the Bouches du Rhône must be called a slatternly beauty; whilst embellishing herself, putting on her jewels and splendid attire, she has forgotten to wash her face and trim her hair! . . . Marseilles is dirty, unswept, littered from end to end; you might suppose that every householder had just moved, leaving their odds and ends in the streets, if, indeed, these beautifully shaded walks can be so called. The city in its development has laid out alleys and boulevards instead of merely making ways, with the result that in spite of brilliant sky and burning sun, coolness and shadow are ever to be had.

But it is not only by beautiful villas and gardens that the city has embellished itself. What with the lavishness of the municipality, public companies, and the orthodox, noble public buildings, docks, warehouses, schools, churches, gardens, promenades, have rendered Marseilles the most sump-

tuous French capital after Paris.2

HINTS TO MOTORISTS IN FRANCE.—If one's motor trip is confined to a single country it may not be worth while to join a foreign touring club; you pay the duty on your automobile when you enter the country and you get your money back when you leave; there is but one such transaction, and it involves but little trouble and no expense. But if several countries are to be visited a club membership is helpful.

When we reached Havre the Get-There (our car) was inventoried and weighed, and a duty of six hundred and seventy-six francs was paid; this amount, less two cents for a receipt stamp, was refunded three months later when we left France for the last time at the frontier near Mentone. That was our only direct dealing with customs officials, for before starting east we went to the handsome home of the Touring Club de France, at No. 67 Avenue de la Grande Armée, and paid six francs for a membership, which entitled us to secure for each country we purposed visiting what is called a "Triptyque," i. e., a certificate in triplicate setting forth that we had deposited with the club's treasurer an amount sufficient to cover all duties which the Get-There would have to pay.

Armed with a triptyque as you cross a frontier, instead of being obliged to weigh your automobile and furnish a detailed description of its colour, its seats, number, motor, etc., and then pay a large sum in cash in the currency of the country you are about to enter—instead of all this delay and bother you merely present your triptyque; the customs officer retains the first sheet and stamps on the second sheet the date of your entry; when you recross the frontier the date and place of your exit are stamped on the second sheet; your goings and comings continue to be thus stamped

on the second sheet until you leave the country for the last time, then the officer retains the second sheet, and on the third one certifies that you have made your final exit. forwarding this third sheet, so certified, to the Touring Club de France the amount of your deposit for the country you have definitely left is at once sent to you at any point you

As we purposed motoring in several countries the total deposit we had to make with the club's treasurer amounted to nearly two thousand francs, but just as soon as the Get-There was shipped from Naples to New York the last franc was promtly refunded; the convenience afforded us in getting, in and out of the various countries visited was well worth the hundred days' use of our money and the fee of twenty francs which the club charged for issuing the triptyques. Sometimes, as when visiting the battlefields of 1870, between Mars le Tour and Metz, we crossed backward and forward between France and Germany several times in the course of half a day; as we had triptyques this entailed little delay. Without triptyques half a day might have been consumed in making a single frontier crossing. It takes only a minute to show a triptyque and have it stamped, whereas to have an automobile weighed and minutely described for future identification takes anywhere from an hour to a day, according to the humour of the frontier official making the inventory.1

SYNOPSIS OF FRANCE

(See Map, p. 40)

BOUNDARIES.-France is bounded on the north by the English Channel;

Boundaries.—France is bounded on the north by the English Channel; on the west by the Bay of Biscay; on the east by Germany, Switzerland, and Italy; and or. the south by the Pyrenees and the Mediterranean.

CLIMATE.—France enjoys the most delightful climate in all Europe; only the actually mountainous districts have a severe climate. Elsewhere, even in the northern departments, the winters are mild, while even in the most southerly, the summers are not too hot. The climate of western and southern France is "oceanic," permitting palm trees to flourish in the open air (mean temperature in Jan. of Marseilles 44.6°F., of Bordeaux 42.8°F.), while that of eastern France is more "continental" (mean temperature in Jan. of Nancy 33.8°F.). The annual mean temperature of southern France is 59°F., of central France 55.4°F., and of northern France 50°F., much higher than the temperature of similar latitudes as, e. g., Germany. The rainfall is great; on the Atlantic coast rain falls on 152 days per annum, in the centre on 140, and in the south on 60-70. In the south many. The rainfall is great; on the Atlantic coast rain falls on 152 days per annum, in the centre on 140, and in the south on 60-70. In the south and west the maximum rainfall occurs in autumn, in the northeast in winter.

See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—(1) Agriculture. Half the total area of France is under cultivation, and of the remainder one third is pasture and another third forest land. Most of the cultivable land is split up into very small

third forest land. Most of the cultivable land is split up into very small farms, worked usually by peasant proprietors.

Wheat is the principal grain crop, and grows in all parts of the country, but more particular north of the Seine. Oats are cultivated in the north and northeast; rye in the central plateau; maize in the Rhone Valley and southwestern plains; and buckwheat in the northeast. The vine is the most valuable of the agricultural products, for France is the greatest wine producing country in the world. The chief vine regions are the valleys of the Garonne and Dordogne, claret being obtained from the north of Bordeaux; the valleys of the Loire and the Allier: the region of the headstreams of the

ducing country in the world. The chief vine regions are the valleys of the Garonne and Dordogne, claret being obtained from the north of Bordeaux; the valleys of the Loire and the Allier; the region of the headstreams of the Seine system, where the wine takes it name from the province, Champagne; the Saône Valley, where the eastern slope of the Côte d'Or produces Burgundy; the Rhone Valley and the Mediterranean districts.

The sugar beet is extensively grown in the northeastern part of France, especially in the provinces of Artois and Picardy. The northern departments also produce most of the colza for oil-making, and more than half the flax. The olive is cultivated in the south; while the silkworm is reared on the leaves of the mulberry trees grown in most parts of the Rhone Valley. Oranges and other fruits are cultivated in the Riviera. Tobacco, which is a government monopoly, is grown almost exclusively in the valley of the Garonne and in Algeria. Wood is the chief domestic fuel; the forests, principally in the east and southwest, occupy about 23 million acres.

(2) Cattle and sheep farming. Cattle are raised on the western plains, and sheep on the central plateau. Most of the agricultural labour is performed by oxen, and in the south by donkeys and mules.

(3) Fisheries. Fishing is extensively carried on around the shores; while French fishing vessels visit the banks of Newfoundland and Iceland for cod. Oyster culture is an important industry on the Atlantic coast, especially at Arcachon, and on the Mediterranean coast.

(4) Minerals.—The mineral wealth is much less than that of Great Britain, consequently manufactures do not occupy so large a place in the industrial life of the nation. There are only two large coal fields, one in the northeast which extends from the Belgian frontier south of Lille, and the other on the eastern edge of the central plateau with St. Etienne as its chief centre. Iron is nearly all mined at or near Nancy, where a considerable iron and steel industry has developed. Lead is the o

¹Lee Meriwether, "Seeing Europe by Automobile" (1911). ²Betham-Edwards, "In the Heart of the Vosges" (1912).

¹Lee Meriwether, "Seeing Europe by Automobile" (1911).

half of the supply comes from the salt marshes (salines) of the flat shores of

the Bay of Biscay and the Mediterranean.

Manufactures.—The chief manufacture is silk, the next wine, and then woollen goods. Nine tenths of the silk woven is made at Lyons. Woollens MANUFACTURES. The third is a manufacture of the silk woven is made at Lyons. Woollens are produced chiefly in the north, about three-quarters of the raw material being imported. Cottons are more largely made at Rouen, a port well situated on the Seine for obtaining American cotton. Lace making, a typical French industry, occupies large numbers of women in their own homes. In the making of furniture, jewellery, and other objects of art, France is

Water power is largely used in French manufactures. On the slopes of the Vosges and in the valley of the Isère, where coal is difficult to obtain, water is the chief source of power. Water power from the Rhone at Lyons and from the Loire near Saint-Étienne is used also to supplement steam

CHIEF CITIES AND INDUSTRIES OF FRANCE

CITY	POP. IN THOUSANDS	DEPARTMENT	PRINCIPAL INDUSTRIES
Amiens* Angers*	93 83	Somme Marne-et-Loire	Cottons and woollens. Sail cloth, hosiery, leather,
Angoulême*	38	Charente	chemicals, slate quarries. Paper, woollens, linens, dis- tilleries, tanneries.
Avignon*	49 .	Vaucluse	Silk.
Besançon*	57	Doubs Hérault	Watches, linens, cottons, silks.
Béziers Boroeaux*	261	Gironde	Woollens, hosiery, chemicals. Sugar, soap, shipbuilding, pot-
Boulogne-sur-Mer	53	Pas-de-Calais	teries, distilleries. Soap, earthenware, linen, woollens, coal, corn, butter, fish.
Bourges* Beest	45 90	Cher Finisterre	Cloth, leather. Cereals, brandy, sardines, mackerel, (Navaldockyard.)
CAEN	46	Calvados	Lace.
CALAIS	72	Pas-de-Calais	Cotton, silk, bobbinet lace. (Naval dockyard.)
CHERBOURG CLERMONT-FERRAND*	43 65	La Manche Puy-de-Dôme	Confectionery, hats, boots
			and shoes.
Dijon* Dunkirk	76 38	Côte-d'Or Nord	Wines, cotton, tanneries. Linens, especially jute and sail cloth, leather, soap, starch, ropes.
GRENOBLE* LE HAVRE	77 136	Isère Seine-Inférieure	Gloves, linens, leather. Sugar, cottons, paper, glass, oil,
Le Mans*	69	Sarthe	Woollens, linens, machinery, leather.
LEVALLOIS-PERRET	68	Seine	Motor cars, carriages, perfum-
LILLE* LIMOGES*	217 92	Nord Haute-Vienne	Woollens, beet sugar, textiles.
LORIENT	49	Morbihan	cloth, foundries. Shipbuilding. Centre of silk manufacturing.
Lyons* Marseilles*	523 550	Rhône Bouches-du-Rhône	ondes, leather goods, sugar,
MONTPELLIER	80	Hérault	Soap. Cottons, candles, soap, chemi- cals.
Montreuil-sous-Bois	43	Seine	Paints, oils, varnish, glass, chemicals.
Nancy* Nantes*	119	Meurthe-et-Moselle Loire-Inférieure	Woollens, cottons, lace. Machinery, linens, cottons, sail-cloth, flannel, leather, ropes.
NEUILLY-SUR-SEINE	44	Seine	Chocolate, varnish, carpets.
Nice*	142	Alpes Maritimes	Perfumery, soap, tanning.
Nimes*	80	Gard	Silk and cotton goods.
Orleans*	72	Loiret	Confectionery, pottery, wool- lens.
Paris*	1,888	Seine	Silks, leather goods, carpets, tapestries, bronzes, lamps, watches, gloves, sugar.
Pau* Perpignan*	37 39	Basses-Pyrénées Pyrénées-Orientales	(Health resort.) Iron, wool, oil, wine, corks, leathers.
Poitiers*	41	Vienne	Printing, brushes tanning
Reims or Rheims	115	Marne	Printing, brushes, tanning. Wines, flannels, blankets, me- rinos.
Rennes*	79	Ille-et-Vilaine	Sail cloth, linens, shoes, hats.
ROANNE	36	Loire	Cottons, woollens, linens,
Rochefort Roubaix	36 122	Charente-Inférieure Nord	Wine, brandy. Textiles, beet sugar.
Rouen	124	Seine-Inférieure	Woollens, chemicals, beet
SAINT-DENIS	71	Seine	Sugar, earthenware. Tanneries, breweries, gelatine.
SAINT-ÉTIENNE	148	Loire	soda, calicoes. Coal and iron, silks, cutlery.
SAINT-NAZAIRE SAINT-OUEN	38 41	Loire-Inférieure Seine	Shipbuilding, steel works. Metal founding, machine con- struction.
SAINT-QUENTIN TOULON	55 104	Aisne Var	Cottons, woollens. Shipbuilding, fishing, lace-making, wine growing. (Naval dockyard.)
Toulouse* Tourcoing	149 82	Haute-Garonne Nord	Iron goods. Woollens, cottons, linens, silks, dye works.
Tours* Troyes*	73 55	Indre-et-Loire Aube	Silks. Cottons, woollens, soap, paper,
			gloves.
Versailles*	60	Seine-et-Oise	Boots and shoes, market gardening.

*Capital of department.

CAPITAL—Paris, on the Seine. Population 2,888,110.
CHIEF PORTS.—Marseilles, on the Mediterranean, is the chief harbour and trades with Mediterranean ports and the Orient; Havre, at the mouth America; Bordeaux, on the Garonne, is the chief wine exporting town; Nantes, Dunkirk, Calais, Boulogne, Dieppe, and St. Nazaire, are less extensive seaports. The great naval potts are Cherbourg, Brest, and Toulon.

Commerce.—The position of France on three seas gives her great natural

advantages for foreign commerce, while her magnificent network of rivers,

canals, and railroads facilitates a brisk trade at home. The foreign trade is carried on chiefly with the United Kingdom, the United States, Germany, Belgium, and Italy.

With the United States.—From the United States France receives cotton (raw and manufactured), copper, oils, iron and steel manufactures, breadstuffs, tobacco, etc. In exchange she exports to the United States

silks, cottons, works of art, woollens, fruits, etc.

Chief Imports.—Wool, cotton, coal, oleaginous fruits and seeds, machinery, raw skins, cereals, timber, caoutchouc, copper, petroleum oils, coffee,

and wines.

and wines.

CHIEF EXPORTS.—Cotton tissues, silk tissues, wool, woollen tissues, wines, small wares, automobiles, silks, raw skins, millinery and artificial flowers, dressed skins, tools and metal goods, machinery, pig iron, butter, table fruits, refined sugar, brandy and liqueurs, fish, and cheese.

COMMUNICATIONS.—The system of railroads is very extensive. They are almost entirely concédés, and become state property after the expiration of the concession.

tion of the concession.

There are 30,000 miles of railway divided among six great companies, whose lines scarcely overlap. The Northern occupies the section between Boulogne and the German frontier, with connections to England by the Calais-Dover route. The Western sends one main line down the Seine valley through Rouen to Havre and Dieppe, another to the naval harbour of Cherbourg in Normandy, and a third to that of Brest in Brittany, with branches to the chief intervening towns. The Paris-Orleans serves the area between the Loire and the Garonne, including the wine-producing district of Charente; the chief centres of traffic are Orleans, Tours, and Poitiers. At Bordeaux it connects with the Southern lines, one of which runs into Spain at Bayonne, leading to Madrid and Lisbon, another by Toulouse to Cette, Montpellier, and Spain. The Paris-Lyons and Mediterranean has the greatest amount of traffic, and has two lines to the south traversing the wine-growing districts of Burgundy and the silk and iron centres of the Upper Loire and Rouen valleys. The main line runs southeast to Dijon (whence a branch leads to Bern), turns south down the valley of the Saōne to Macon (the junction for the Mont Cenis tunnel route to Italy). The Eastern railway brings the vine-yards of Champagne, and the iron-works of Meurthe-et-Moselle into communication with the capital. One line through Châlons, a wine centre, and Nancy, enters Germany by Avricourt; another passing the fortifications of Belfort goes into Alsace and Switzerland, connecting with Austria by the Arlberg tunnel, and with Italy by the St. Gothard tunnel.

The length of telegraph wires is 152,000 miles, and of telephone lines

The rivers are extensively used for inland navigation, their usefulness

coinage. The franc of 100 centimes is of the value of 19.3 U. S. cents or 9½ d. Gold coins in use are 20 and 10 franc pieces. Silver coins are 5, 2, 1, and ½ franc pieces and 20 centime pieces. Bronze coins are 10 and 5 centime pieces. There is a double standard of value, gold and silver, the ratio being theoretically 11½ to one.

theoretically 15\frac{1}{2} to one.

The present monetary convention between France, Belgium, Italy, Switzerland, and Greece—known as the Latin Union—is continued from year to year. According to its terms the five contracting states have their gold and silver coins respectively of the same fineness, weight, diameter, and current value.

GOVERNMENT.—France, since the overthrow of Napoleon III. in 1870, has been a Republic governed by a President and two Chambers. The *President* is elected for seven years by the two Chambers united in National Assembly, and receives 600,000 francs (\$120,000) a year, and a further allowance of 600,000 francs for expenses. He appoints the ministers and makes all civil and military appointments. War can be declared by the President only with consent of the two Houses, and his every act must be countersigned by a minister. signed by a minister.

The legislature consists of the National Assembly, sitting in two houses; namely, the Senate of 300 members, indirectly elected for nine years (one third retiring every three years), and the Chamber of Deputies of 584 members elected for four years by universal suffrage. Both houses can initiate and frame laws, except in the case of financial laws, which must first be presented to and voted by the Chamber of Deputies. Deputies and Senators are both paid at the rate of 15,000 francs (\$3,000) a year. The Presidents of the two Chambers each receive in addition 72,000 francs (\$14,500) a year for the expense of entertainment. Members of both Chambers travel free on all railways on making a small annual payment.

The colonics are regarded as being politically part of France, and are represented in the Senate by four Senators and in the Chamber by ten Deputies.

FRENCH COLONIES

DEPENDENCIES				DATE OF ACQUISITION	AREA (sq. miles)	POPULATION
Asia French India. French Indo-China. Africa	:		:	1679 1861–92	200 309,979	277,700 16,600,000
Algeria*				1830-1902	221,947	5,563,828
French Morocco. Tunis . Tunis . French West Africa: Senegal . French Guinea . Ivory Coast . Dahomey . French Sahara . French Equatorial Africa . French East Africa: Madagascar . Somali Coast . America .	:		:	1831 1893 1843 1843 1893 1880 1884 1643–1896	3,812,200	39,948 ,30 0
St. Pierre and Miquelon Guadeloupe Martinique Guiana Australaria	•	: :	:	1635 1634 1635 1626	35,320	428,850
New Caledonia				1854-87 1841-81	7,200 8,378	50,500
Total					4,395,224	62,950,278

^{*}Algeria forms an integral part of France, under a governor-general.

GERMAN EMPIRE

(See Map, p. 41)

The present German Empire (Deutsches Reich) was launched only a generation ago; but in order to understand its present relations to neighbouring states we must take a glance backward. Just as France was foreshadowed in the kingdom of the West Franks in the division of Charlemagne's empire, so Germany was foreshadowed in the kingdom of the East Franks, which was the chief among the three kingdoms (see Map of the Empire of Charlemagne, p. 47). While in France the crown became a nucleus for the steady and solid growth of the kingdom, the Teutonic kingship passed from house to house until in 1273 it settled with the Hapsburgs. But in spite of occasional successes, the central power grew weaker and weaker, with the result that the constituent states were able to establish their virtual independence.

The sole political bond of unity was the Holy Roman Empire. Nominally this consisted of the kingdoms of Germany, Italy, and Burgundy; but actually the two latter fell away, and the idea of the kingdom became merged in that of the empire. Though nominally Roman, the Empire was actually German; but since the emperor was elected, the subordination of the various fiefs was only nominal. From 1438 to the end of the Holy Roman Empire in 1806 the House of Hapsburg was the dominate member of this loose confederation, and the Archduke of Austria, as the ruler of this house, was also the Holy Roman Emperor. Austria's future rival, Brandenburg, was one of the seven states, and not the most important, whose rulers had the right of electing the emperor.

The religious wars of the sixteenth and seventeenth centuries destroyed any possibility of establishing German political unity on the basis of the Holy Roman Empire; while they increased the power of the chief Protestant prince, the Elector of Brandenburg. The Duchy of Prussia. a fief of Poland, was acquired by inheritance in 1611, and the treaty of Westphalia in 1648 still further increased the growth of the Brandenburg domains. Under the Great Elector Frederick William I. (1640-1688), Brandenburg-Prussia became the dominate state in North Germany and the rival of Austria. In 1701 the elector (Frederick I. of the House of Hohenzollern) took the title of King of Prussia. The Rhineland territory was extended in 1702, 1707, and 1713; part of Swedish Pomerania was acquired by the treaty of Stockholm in 1720; Silesia was seized (in time of peace and in contravention of treaty) in 1740; the North Sea was reached by the acquisition of East Friesland in 1744, while Polish territory was seized in the partitions of that unfortunate country. The chief agent in this scheme of territorial aggrandizement was Frederick the Great (1740-1786).

Among the makers of the modern German national state an important place must be given to Napoleon. His reconstruction of Germany between 1800 and 1811, though resented by the Germans, swept away the three hundred little sovereignties that obstructed reform, and substituted a limited number of considerable states among which subsequent union was possible. After the fall of Napoleon another loose confederation was formed, with Prussia and Austria as rivals for its leadership. This rivalry led to the war of 1866, when Austria was defeated by Prussia and left the union. By the annexation of Schleswig-Holstein, Hanover, Hesse-Homburg, Hesse-Cassel, Nassau, and Frankfort, Prussia united her separated territories and increased

her preponderance in Germany. In 1870-71 the Franco-Prussian war added Alsace-Lorraine; the North German Confederation was extended by the inclusion of the four South German States (Hesse-Darmstadt, Baden, Württemberg, and Bavaria); and the German Empire sprang into being as the predominant power in western Europe.

Anti-Prussian Sentiment in Germany.—Since Prussia became the dominant member of the German family of states, the overbearing attitude of her sons has antagonized the remainder of the nation.

With the blood of the conqueror flowing in their veins, with a history which makes them justly proud and conscious of superior prowess, the modern Prussian, both before and after the foundation of the empire of to-day, has shown a great knack of making himself offensive to the other Germans. The dislike felt for him in all non-Prussian lands is indeed very pronounced. No observant traveller understanding the language of the country can fail to notice that in Germany. The writer remembers that while on a trip through Bavaria, some few years ago, numerous instances of the feeling came within his ken. One old peasant in the environs of Munich, suspecting his questioner to be a "Preiss' (Prussian), refused point-blank the information sought, but on being assured that his suspicion was unfounded, became quite affable and communicative. At a theatrical performance in Munich, the audience hissed at the mention of the mere word "Prussia" in the play. Riding in railroad cars, the Bavarian fellow-passengers always behaved very distantly toward Prussians, whom they usually detect at once by their harsh and precise enunciation. Picking up at random a local newspaper in a Bavarian café, the eye lighted upon a satirical editorial aimed at Prussian self-sufficiency. In a Nuremberg restaurant, overhearing the conversation at a neighbouring table which was monopolized by jovial burghers of the town, one of them was heard to tell a story at the expense of his Prussian boarder, whereupon the others remarked in chorus, "What else can you expect of a conceited Prussian?" And so it went on throughout the whole trip While travelling in the Rhine country, the writer noticed that the inhabitants of the whole province, though politically forming part of the Prussian monarchy, invariably avoided calling themselves Prussians, but always spoke of themselves as "Rhinelanders," and in their casual remarks betrayed the same dislike and semi-contempt of "Prussians," meaning thereby, of course, the inhabitants of the old provinces of the kingdom. In Saxony the same fact may be noted, although the dislike is there largely mingled with a sentiment of fear. Whoever remembers how hard little Saxony has fared at the hands of Prussia, and how after the last dismemberment of that enlightened and charming country but a small fragment of its original self is left,

cannot wonder at this mental attitude.

Go where you will, in fact, in all the non-Prussian districts of Germany, and you will discern a strong undercurrent of Borussophobia, and this extends even to the capital, Berlin. They call Prussia, half in jest and half in anger, "Der Hecht im Karpfenteiche"—i. e., the pike in the carp pond, or the equivalent of an insatiable, conscienceless robber.1

EVOLUTION OF GERMANY INDUSTRY.—What strikes us at the very outset in the evolution of German industry, says Professor M. Henri Hauser² of the University of Dijon, is the actual greatness of the phenomenon.

There is something impressive in the spectacle of this people, which forty years ago scarcely counted at all in economic geography, and yet had become on the eve of the

¹Wolf von Schierbrand, "Germany" (1902). ²M. H. Hauser, in "The War of Democracy" (1917).

war one of the great forces of the world. With her 900 to 1,000 millions of foreign commerce Germany reckoned in the second rank of mercantile nations, after England. Outstripping England herself she had achieved the second place in the smelting and production of iron and the second also in the manufacture of steel. Her mercantile marine, inferior to ours [the French] in 1870, was in 1913 surpassed only by those of England and the United States. All this won our admiration. Are we to disavow the admiration we have expressed because Germany has dishonoured herself by crimes? No! For Frenchmen the truth is always the truth. History will certainly record the prodigious effort of will by which Germany, victorious on the battlefield, has won her place by main force in the economic world. I do not know whether it is true that Friedrich Karl said, on the night of the surrender of Metz: "We have just conquered in the military sphere: our task is now to fight and conquer in the industrial sphere." It matters little whether the words are apocryphal: they express a profound and symbolic truth, and admirably render the thought of an entire nation.

We do not hesitate then to recognize that the German people, since the foundation of the Empire, have given proof of remarkable qualities. First and foremost they have worked with intense energy, not with the feverish excitement which raises mountains in a few days, but with persistent and patient everyday labour, regular and methodical. Ostwald is right when he attributes to the Germans the faculty and genius for organization. They have carried to perfection the art of making use of men, of putting every man in his place and of getting the maximum of output from each individual. If the genius for great discoveries seems in recent times to have deserted Germany, the Germans are past masters in the application of the discoveries of science to industry. The statement has often enough been made: It is the union of the laboratory and the workshop which is the foundation of German wealth.

Side by side with the union between laboratory and workshop, it is necessary to call attention to the union between the office of the business director and the library of the economist, the geographer, and the historian. For the method which the Germans applied to the production of a new aniline colour they also carried into their search for commercial outlets, and their organization of channels of commerce. The German chemist and the German commercial traveller marched in step to the conquest of the globe.

CESSATION OF EMIGRATION.—The sudden increase in wealth resulted in the gradual disappearance of the rural population and the virtual cessation of emigration.

It is repeatedly stated that the Germans were forced into a policy of expansion and conquest by the increase in their population. This was indeed the excuse they put forward to justify their attempts to create colonies of settlement in Morocco and Asia Minor. A pitiless Malthusian law had forced them, it was said, to find for themselves a "place in the sun." Now there could be no idea more false than this of Germany as an over-populated country. It is quite true that since 1871 the population of the Empire has increased from forty to nearly seventy millions. It is quite true that in spite of a decline in the birth rate, the increase in the population of Germany was 800,000 a year: that is, 800,000 more births than deaths, 800,000 more mouths to feed. But this increase was far from being excessive, for every year 700,000 Slav labourers came in to work on the great estates of the east, not to mention the Italian, Croatian, Polish, etc., labour employed in towns, mines, and works.

As for German emigration it is no longer more than a memory. Between 1880 and 1883 it exceeded 200,000 a year; to-day it does not reach 20,000—much the same figure as our own [the French], and the French are regarded as a people who emigrate very little. The number of arrivals far exceeds that of departures; Germany has ceased to be a country of emigration and is becoming a country of immigration.

INDUSTRY AND WORLD-POLICY (Weltpolitik). The industrial state is "tentacular," that is, it is not bounded by

its frontiers but sends out its tentacles or ramifications into other countries, until the whole world becomes its field of operations. Such a state is in urgent need not only of capital but of raw material. When Germany entered the industrial lists she was regarded as a country rich in coal and iron. But though she has coal enough, her supplies of iron ore are no longer sufficient for her demands, and she has become more and more dependent on Sweden, Spain, France, and North Africa. In the same way the textile factories of Saxony and Silesia are dependent on Texas and Louisiana.

This intensive industrialism called for increased customers; and as the German people alone are not able to absorb the enormous output of the German factories, the outside world is looked to more and more.\(^1\) Thus the industrial state is committed to a world-policy, and the strength of the Empire is placed at the service of the manufacturers. An increased export trade becomes necessary to provide interest for German capital, while the industrial classes have need of it to insure a full day's work and save them from starvation. That is why German socialism is imperialistic.

This fusion of Weltpolitik and business policy was peculiarly dangerous for the peace of the world. If imperialism, if the tentacular state, puts its strength at the disposal of manufacturing interests, the temptation is strong and constant to use this strength to break down any resistance which stands in the way of the triumph of these interests. If a crisis comes which causes a stoppage of work (there are sometimes 100,000 unemployed in Berlin) the neighbouring nation which may be held responsible for the crisis has reason to be on its guard. "Be my customer or I kill you" seems to be the motto of this industrial system, continually revolving in its diabolical circle: always producing more in order to sell more, always selling more in order to meet the necessities of a production always growing more intensive.

Berlin.—Berlin, the capital of Prussia and of the empire, is the third largest city of Europe. Like other great cities, Berlin is the result of the welding together of a number of districts which sprung up from time to time around a common centre.

The capital of the new German Empire is made up of a network of broad, rectangular thoroughfares from three to five miles across, spreading over a sandy plain watered by a narrow winding stream and various canals.

In the heart of the city are a couple of islands, formed by two loops of the Spree, which were cut in bygone times for the defence of the city. Of these islands the larger is the original Berlin, while the smaller, where the Wendish settlers first raised their rude huts, is the ancient Köln.

From the Brandenburg Gate, the grand entrance to the city, the smaller island is reached across the wide statue-lined Schloss bridge which spans an arm of the Spree and meets Unter den Linden, the far-famed broad thoroughfare which bisects the western portion of Berlin. On this island stands the Schloss or Palace with its imposing northern front facing the spacious Lustgarten, which has been transformed from a swamp to a beautiful garden.

The cathedral, a colossal statue of Frederick the Great, the museum, and the royal mills are close at hand. Königsstrasse, running through old Berlin, is the commercial heart of the city and is the single street in the Prussian capital where one gets jostled by a crowd. The Exchange, Council House, court of justice, post-office, city prison, and head-quarters of police are in this street.

The palace of the prince imperial, the arsenal, royal bank, mint, and telegraph-office are in New Köln, an extension across the Spree of the island of Köln.

^{1&}quot;Germany—of this 1 am coovinced—may in less than two centuries succeed in dominating (beherrschen) the whole globe (Erdkugel), in part directly and politically, in part indirectly, through language, methods and Kultur, if only it can in time strike out a 'new course,' and definitely break with Anglo-American methods of government, and with the State-destroying ideals of the Revolution."—H. S. Chamberlain, Politische Ideale (Political Ideals), 1916.

With all its pretentions, it is easy to perceive that Berlin is a city made up of shreds and patches, like the Prussian monarchy itself, which has been augmented by alliances, purchases, seizures, and more often still by a fortunate sabre stroke, until the Hohenzollern motto, "From rock to sea," has realized itself to the full.

A French writer, with perhaps a little malice, observes: "There is something of the pirate in the Prussian. His country being too poor to support him, he is driven to take

from others. War is for him a business."
Old Berlin is huddled away in the background of the brand-new splendour of the modern city, where the stuccoed buildings have risen at the word of command, and been constructed with an eye to effect. Ancient as Berlin claims to be, one seeks there in vain for monuments which serve as an expression of the grandeur of the past—for old castles, antique cathedral, palaces, and houses of the middle ages

Wilhelms-strasse is another noted street, containing half a dozen palaces and many fine mansions. In the environs, barracks, beer-gardens, factories, gas-works, rifle-ranges, and cemeteries are mingled. Beyond lies the sandy plain of Templehof, where all the grand military reviews take place.

Perhaps the most striking feature in the outward aspect of Berlin is the collection of palaces, public buildings, and statues, pleasantly varied by trees and trim-kept flower-beds. Berlin, viewed in comparison with London or with Paris, has nothing imposing about it. The long, broad streets lack life. No surging crowds throng the footways, no extended files of vehicles intercept the cross traffic or deafen one with their heavy rumbling noise. And, until quite recently, the best Berlin shops would bear no kind of comparison with the far handsomer establishments in the English and French capitals.1

EMBODIMENT OF HOHENZOLLERN CHARACTER.—As I drifted down "the Lindens" with the crowd, observes an American writer, the question arose whether this modern, militant city, with its zest in commerce and diplomacy, in art and science, were not in many senses an embodiment of the Hohenzollern character.

A Frenchman once declared that Prussia was born from a cannonball, as an eagle is from an egg. And indeed it would be hard to find another German city with so few old buildings as Berlin and so little atmosphere. A Strassburg cathedral, a market-place out of Danzig, a row of Hildesheim houses, or a Breslau Rathaus, would be as out of place here as in an arsenal. Most of the Berlin architecture has as much colour as a squadron of battleships in war-paint, and the little glamour to be found here is almost as well hidden as a pearl in a pile of oyster-shells. The city fairly bristles with weapons and militancy. Its statues, when they are not of mounted warriors with swords, or of standing warriors with spears, tend toward such subjects as Samson plying the jaw-bone of an ass, or hounds rending a stag.2

And thus Price Collier, his thoughts bent homeward:

Where in all Germany is there any modern sculpture to compare with our Nathan Hale, our Minute Man, and that most spirited bit of modern plastic art in all the world, the Shaw Monument in Boston? You cannot stand in front of it without keeping time, and here lips of bronze sing the song of patriotism till your heart thumps, and you are ready to throw up your hat as the splendid young figure and his negro soldiers march by—and they do march by!³

HAMBURG.—Hamburg is the great emporium of Germany, and is the second largest city in the Empire. It is one of the three Free Hanse Cities (the others being Lübeck, and Bremen), with a constitution and laws of its own. Hamburg is on the Elbe, and is sixty-five miles from Cuxhaven, to which port it is connected by rail.

great deal of it.2

Hamburg has a perfect technical equipment, permitting the most expeditious, the smoothest possible passage of freight between sea and inland carriers. It has a network of waterways at its command and a railway system converging upon it from all parts of central Europe. Steamship lines give it probably a larger number of direct connections with foreign countries than any other port enjoys. Moreover, this equipment is utilized as it should be. Port and channel dues are low. There is a heavy use of the Elbe inland and good cooperation with it on the part of the railways. latter give their lowest tariffs to aid Hamburg against its foreign rivals or to further German exportation.

The Germany of to-day is unthinkable without Hamburg, which is the symbol of German persistence, thoroughness, care of details, appreciation of opportunity, and nice

adaptation of the means to the end in view.1

BEER INDUSTRY.—The manufacture of beer is one of the leading German industries. In Bavaria, the chief centre of the industry, the consumption is more than fifty gallons per capita. In the city of Munich the consumption exceeds seventy gallons, which means one and a half pints a day for every man, woman, and child. An American traveller gives us an amusing picture of this national custom:

I have come to the conclusion that the Germans love beer. I arrived at this conclusion immediately on reaching German soil. The moment I crossed the frontier from winedrinking France I smelt hops, and I have smelt hops ever since. The German atmosphere I find is thoroughly impregnated, go where you will, with the aroma from beer shops and breweries, and there is no denying the fact that the two great industries of the German nation are hop raising and beer drinking, the women attending to the former and the men to the latter.

In my innocence I once thought that beer drinking in England was carried to excess, but I was mistaken. Englishmen, as yet, are in the infant class—in the A B C's—in acquiring a German's education in the practice of beer drinking, and stowing away under their vests such vast quantities of the extract of hops. Every little village and every city, large and small, throughout Germany is full of an indefinite number of buildings which are devoted to the sale of beer or its manufacture. Beer shops are on the corners of all the streets, they are round the corners, they are next door and over the way, they are on opposite sides of the streets, they are in the basements or the attics, they are at the end of every dark lane and disreputable alley, and those that are not above ground are under ground; in fact, beer shops are everywhere.
The German begins drinking beer early in the morning.

Before he takes his coffee he swallows a few glasses to counteract the effect of the beer of the day previous. In place of coffee he takes beer again, which he stows away as a foundation on which to build the day's work in beer drinking. During the forenoon he has not fingers and toes enough to tally the number of glasses that it takes to give him an appetite for his dinner.

Up to this time it has been mere child's play—just practising the scales, as it were—to keep his throat pliable. In the afternoon he gets decidedly thirsty, and he makes a business of beer drinking; he "wades in," so to speak, and the number of glasses that he consumes by twelve or one o'clock at night would be as difficult to count as a shower of shooting

I don't wish to overdraw the picture or paint it in false colours. I wish it merely to be understood that the Germans, as a race, are very fond of beer, and that they drink a

THE THREE LOVES OF GERMANY.—What are they? Martin Luther's "wine, woman, and song" (Wein, Weib, und Gesang) will probably suggest themselves first; but in the opinion of a transatlantic critic they are "music, beer, and sauerkraut."

¹H. Vizetelly.
2R. H. Schauffler, "Romantic Germany" (1909).
3Price Collier, "Germany and the Germans" (1913)

¹Edwin J. Clapp, "The Port of Hamburg" (1911). ²Henry Ruggles, "Germany Seen Without Spectacles" (1883).

There are three things the Germans are intensely fond of-music, beer, and sauerkraut; there is no denying this fact. I hesitate which to put first on the list as their special favourite. I think if a German was asked which his heart or inmost soul craved most be would be a long time in making up his mind, and finally be obliged to answer, "Alle drei, all three. In journeying through the country the traveller is constantly butting against positive proof wherever he goes that these triplet favourites have a tenacious hold on the national heart, and that the love of each is part of the German nature. He is convinced of the fact through the organs of hearing, seeing, and smelling. Go where he will, he hears music—splendid music, too; and in every city, village, town, and hamlet, wherever his footsteps or the railways carry him, he has abundant evidence that one of the principal occupations of the people, man, woman, and child, is beerdrinking.

As for sauerkraut, the abominable smell of it while undergoing the cooking process greets his nose in the majority

of German houses, hotels, and pensions. . . . One of the chief delights of German travel is the enchanting music for which Germany is noted, and which one encounters in every part of the country; but the disagreeable part of travel is the unearthly, indescribable odours arising from the constant cooking in various ways of the national

vegetable, the cabbage.

The odour from the cooking of cabbage in its natural state is endurable and Christian compared to the cooking of sauerkraut. About the latter there is a mixture of bar-barian, Oriental, and menagerie smells that makes one imagine that he is in one of the resurrected graveyards or tombs of the ancient Egyptians. I do not wish to overdraw the picture or magnify the quality of this national odour; I am stating the impression it makes on strangers generally, and especially on Americans, when they first travel through the country, and stumble on it at every streetcorner and in every house they enter. Fortunately for those who remain in Germany any length of time, this peculiarity of the atmosphere gradually dies away, and in a few months or years they become so thoroughly Germanized that they fail to detect anything more unpleasant from the perfume of a dish of sauerkraut than they would from a bouquet of the choicest flowers.1

AMBER FISHERS OF THE BALTIC.—The Samland, equidistant from Danzig and Memel, is the California of East Prussia, and along the coast there for more than thirty centuries the bulk of the amber supply of the world has been obtained. Twenty or thirty feet beneath the sand dunes, and extending to the ocean floor, are veins of "blue-earth," in which the yellow and yellow-brown masses are embedded, so that amber can be mined as well as fished.

The slow sinking of the sea-level and the action of tide and storms help to free the amber, so that it is easier to fish than to dig for it. The right to fish belongs to the coast

villages, and in some cases to the government. Amber fishing is no child's play, for the fishers either work shoulder deep in the water, while the chilling spray dashes over them, or they spend five hours a day in the seabottom in heavy diving armour while the air above is at freezing temperature.

After a storm the men work among the surf with forks and hand-nets, to poke out and detach from the seaweed any loose pieces which they pass to women who stand as near as they can to the water. But the largest and finest blocks are rolled about on the sea-floor and remain behind.

These are sought among the shallows by men in boats when the water is clear. On certain reefs trained divers are at work in specially made diving dress, which allows them to lie down and work like a collier, loosening the blocks on the sea-floor.

When gathered, the amber is sorted according to colour and size. Pale pieces go to Turkish pipe-makers; lightcoloured and veined slabs are sent to Italy; the dull yellow

pieces go to the South Sea and Africa. The ordinary qualities go mostly to Leghorn and Venice. In return, the Baltic provinces import the red coral from the Adriatic, for a string of coral beads is considered a necessary part of a Polish bride's outfit.1

SYNOPSIS OF THE GERMAN EMPIRE

(See Map, p. 41)

The German Empire occupies the centre of Europe and comprises four kingdoms, six grand duchies, five duchies, seven principalities, three Free Cities, and one imperial territory (Alsace-Lorraine, taken from France in 1871). It is bounded by Russia on the east; Austria and Switzerland on the south; France, Holland, and Belgium on the west; and the North and Baltic Seas and Denmark on the north. Three of the frontiers are indicated by artificial boundaries; the southern one is formed by Lake Constance and the mountains which extrates accurate the received from it. stance and the mountains which stretch eastward from it.

STATES OF THE GERMAN EMPIRE

STATES	DESIGNATION	CAPITAL	(sq. miles)	POPULATION
PRUSSIA	Kingdom	Berlin	134,664	40,165,219
BAVARIA	Kingdom	Munich	29,293	6,887,291
SAXONY	Kingdom	Dresden	5,789	4,806,661
Württemberg	Kingdom	Stuttgart	7,532	2,437,574
BADEN	Grand Duchy	Karlsruhe	5,819	2,142,833
Hesse	Grand Duchy	Darmstadt	2,968	1,282,051
Mecklenburg-Schwerin	Grand Duchy	Schwerin	5,068	639,958
SAXE-WEIMAR	Grand Duchy	Weimar	1,394	417,149
Mecklenburg-Strelitz	Grand Duchy	Neu-Strelitz	1,131	106,442
OLDENBURG	Grand Duchy	Oldenburg	2,482	483,042
Brunswick	Duchy	Brunswick	1,418	494,339
Saxe-Meiningen	Duchy	Meiningen	953	278,762
SAXE-ALTENBURG	Duchy	Altenburg	511	216,128
SAXE-COBURG-GOTHA	Duchy	Coburg and Gotha	763	257,177
Anhalt	Duchy	Dessau	888	331,128
SCHWAR2BURG-RUDOL-	D	p		
STADT	Principality	Rudolstadt	363	100,702
SCHWARZBURG-SONDERS-	n · · · · ·	C. 1. 1		
WALDECK	Principality	Sondershausen	333	89,917
REUSS-GREIZ	Principality	Arolsen Greiz	433	61,707
REUSS-GREIZ REUSS-GERA	Principality		122	72,769
SCHAUMBURG-LIPPE	Principality	Gera Bûckeburg	319	152,752
Lippe	Principality	Detmold	131	46,652
LUBECK	Principality	Lübeck	469	150,937
Bremen	Free City	Bremen	115	116,599
Hamping	Free City Free City	Hamburg	99 160	1,014,664
ALSACE-LORRAINE	Reichsland*	Strassburg		1,874,014
ALLONCE-LONKAINE	Retensiand	Strassburg	5,607	1,0/4,014
Total			208,825	64,925,993

^{*&}quot;Imperial Land" under a Statthalter or governor.

CLIMATE.—The climate varies in different districts according to altitude, latitude, and proximity to the sea; but it is generally of a "continental" character, and subject to extremes of heat and cold. The Rhine Valley enjoys the mildest temperature; the lower plains of Prussia, and especially the eastern regions, are very cold, damp and bleak in winter, but hot and dry in summer. The highland districts of Bavaria, Württemberg, Baden, etc., are extremely cold in winter, but genial in summer. The mean annual temperature of southwestern Germany, or the Rhine and Danube basins, is about 52° to 54°F., that of central Germany 48° to 50°F., and that of the northern plain 46° to 48°F. In Pomerania and West Prussia it is only 44° to 45°F., and in East Prussia 42° to 44°F.

In regard to rainfall, Germany holds a middle position between the humidity of northwest Europe and the aridity of the east. The rainfall is greatest in the Bavarian table-land and the hilly regions of western Germany. See Climate Map of Europe, pp. 24, 25.

greatest in the Bavarian table-land and the hilly regions of western Germany. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—(1) Agriculture. One fifth of Prussia is unproductive, and consists of marshes, swamps, heaths, and sandy wastes. The most unfruitful districts are in the provinces of East and West Prussia, Pomerania, Brandenburg, Silesia, and Hanover. About one fourth of the empire is covered with woods and forests, which yield valuable timber. The forests also give rise to local industries such as clock and toy making by the peasants of the Vosges and Black Forest, and the burning of charcoal for fuel for the factories of Silesia.

Potatoes and rye are extensively grown, and form the chief food of the

the peasants of the Vosges and Black Forest, and the burning of charcoal for fuel for the factories of Silesia.

Potatoes and rye are extensively grown, and form the chief food of the people. A relatively greater area is devoted to the cultivation of rhe potato than in any other country; it is twice the proportion found in Ireland. The potatoes are also used for making brandy and other spirits; this is also one of the purposes to which the sugar beet is put, especially in the centre and northeast of the country. Oats and wheat are also largely grown. In Saxony and Silesia flax ranks next in importance to the sugar beet. Hops are grown principally in the south, especially in Bavaria. The vine is cultivated in the plain of the Upper Rhine, and on the terraced slopes of the tributary valleys. Fruit and tobacco are also grown in the same region.

(2) Cattle and sheep farming. Most sheep are raised in the north of Prussia, but the finest wool comes from Saxony and Silesia. The number of sheep now raised is not so great as it was thirty years ago. On the other hand the raising of pigs has increased at the same rate as sheep rearing has diminished. Cattle rearing has also increased; it is the leading industry of Schleswig-Holstein. Horses are raised for the army in East Prussia.

(3) Minerals. The production of coal is exceeded only in the United States and Great Britain. The three chief coal-fields are in the Ruhr Valley in Westphalia, Upper Silesia, and Saxony. Lignite is also mined. Iron ore occurs in the same districts as the coal, thus fixing the sites of the great

¹Henry Ruggles, "Germany Scen Without Spectacles" (1883).

Adapted from the London Standard.

metal-working and manufacturing towns. Silver is produced in Saxony in the Harz Mountains. Zinc is produced in Upper Silesia and the vine district. The Harz and the Erzgebirge also contain ores of copper, lead, and tin, besides great quantities of potash salts. On account of this mineral wealth, there are a number of chemical works at Stassfurt. Salt is worked in many parts of the country.

MANUFACTURES.—Iron and steel rank first, then textiles, glass (especially scientific apparatus), porcelain, and paper. In the production of chemicals, dyes, and drugs Germany leads the world. Shipbuilding is carried on at Hamburg and at most of the Baltic ports.

Germany is becoming more and more a manufacturing country. About 37 per cent of the population are supported by industry and mining. 33

37 per cent of the population are supported by industry and mining, 33 per cent by agriculture, and 12 per cent by trade and traffic. Germany supports about nine-tenths of her population by her own produce.

CHIEF CITIES AND INDUSTRIES OF GERMANY

			
CITY	FOF. IN THOUSANDS	STATE	PRINCIFAL INOUSTRIES
AACHEN	156	Prussia	Zine, metal goods, machinery, chemi-
ALTONA	173	Prussia	Tobacco and eigars, machinery, wool-
Barmen Berlin	169 2,071	Prussia Prussia	lens, cottons, chemicals. Silks, cottons, woollens. Metal goods, machinery, woollens,
D L L L L L L L L L L L L L L L L L L L	2,071	1143314	chemicals, tobacco, porcelain, sew-
			ing machines, carpets, silks, cloth, soap, lamps, china, furniture, gloves, buttons, breweries, books, electrical
n		n .	plant.
Bielefeld Bochum	78 137	Prussia Prussia	Cottons, linens. Iron and steel, coal mining, carpets,
Bremen*	247	Bremen	brickworks, breweries. Shipbuilding, engine building, rope
			Shipbuilding, engine building, rope making, tobacco, distilleries, sugar refining, rice shelling. Woollens, linen.
BRESLAU BRUNSWICK	512 144	Prussia Brunswick	Woollens, linen. Machinery, pianos, preserves, chemi-
CHARLOTTBNBURG	306	Prussia	Machinery, pianos, preserves, chemi- cals, beer, books, sausages. Iron works, porcelain.
CHEMNITZ	288	Saxony	Cottons, woollens, metal goods.
COLOGNE	517	Prussia	Beet sugar, chemicals, perfumes, leather.
Crefeld	129	Prussia	Silks, velvets, dyeing, engineering, chemicals, soap, distilleries, tan-
DANZIG -	170	Prussia	neries. Shipbuilding.
Dortmund	214	Prussia	Breweries, iron and steel, machinery, sewing machines.
DRESDEN	548	Saxony	Porcelain, photographic materials.
Duisburo	229	Prussia	Copper, steel, brass, chemicals, ship- building, tobacco, cotton, sugar, soap.
Düsseldorf	359	Prussia	Silks, cottons, coal.
ELBERFELD Essen	170 295	Prussia Prussia	Silks, woollens, cottons. Iron and steel, machinery; (Krupp
P	- , ,		works).
FRANKFURT AM MAIN	415	Prussia	Chemicals, leather; (celebrated fair).
GELSENKIRCHEN HALLE	170	Prussia Prussia	Coal, iron, steel, soap, glass, chemicals. Salt, sugar refining, machinery, distilling, coal mining, dyeing, oils. (Chief distributing centre for Middle Europe.) Provisions, breweries,
Hamburg*	931	Hamburg	(Chief distributing centre for Mid-
			distilleries, mineral waters, textiles,
			tobacco, cigars, machinery, chemi-
HANOVER	302	Prussia	tobacco, cigars, machinery, chemi- cals, oils, soap, celluloid, leather. Cotton spinning, iron foundries, chemi-
KARLSRUHB	£34	Baden	cals, tobacco, cigars. Machinery, engineering, and iron.
Kiel	212	Prussia	(Chief naval port.) Shipbuilding,
			iron foundries, flour mills, oil works, saw mills, breweries, soap, fish
Königsberg	246	Prussia	curing.
Leipzig	590	Saxony	(Centre of German book trade,)
Lübeck*	99	Lübeck	Type-founding. Breweries, distilleries, saw-mills, ship-
			building, fish-curing, machinery, engines, bricks, resin, preserves, furniture, so ² p.
MAGOEBURG	202	Danasia	
	280	Prussia	Beet sugar, machinery, woollens,
Mannheim Meissen	194	Baden Saxony	Chemicals, wines.
Mülhausen	34 95	Alsace-Lorraine	Cottons, metal goods.
Munich	596	Bavaria	Breweries.
Nubemburg	333	Bavaria	Watches, clocks, trinkets, gold and silver repoussé work.
Posen Potsdam	157	Prussia	Machinery, furniture, sugar, milling and brewing.
RIXOORP	62 237	Prussia Prussia	Woollens. Linoleum, furniture, cloth, pianos,
Schöneberg	173	Prussia	Railway plant, cigars, paper, soap, chemicals.
SOLINGEN	51	Prussia	Cutlery.
STETTIN	236	Prussia	Shipbuilding, distilleries, potteries, and engineering works.
STRASSBURG STUTTGART	179 286	Alsace-Lorraine	breweries, leatner, nops, chemicals.
Zwickau	74	Württemberg Saxony	Musical instruments, hosiery. Coal and iron, woollens.

*Free Hanse Cities.

Capital—Berlin, on the Spree. Population 2,071,257.

CHIEF PORTS.—Hamburg, the principal trading harbour on the continent, Bremen, Stettin, Lübeck, Danzig, and Königsberg. Wilhelmshafen on the North Sea, and Kiel on the Baltic are naval ports. The Baltic is not navigable in winter on account of the ice, but some of the Baltic harbourg remain open in mild winters.

harbours remain open in mild winters.

Commerce.—German trade policy is that of protection. The Zollverein, or customs league, applies to all parts of the empire (as well as Luxemburg) except a small portion of Hamburg which retains its own privileges but practically forms a vast bonded warehouse. The Zollverein establishes free trade among the several German states and a common tariff on imports, experts and goods in transits. exports, and goods in transit. On account of the difficulty of transit in

some parts of Germany and the number of foreign countries it touches, one

part of the country often exports produce that another part needs to import; e. g., North Germany exports wheat, while Bavaria imports it.

The foreign commerce resembles somewhat that of the United Kingdom, for in the imports food supplies and raw materials are of more importance than manufactures. Germany, however, is not so dependent as Great Britain upon foreign supplies of food, the chief articles needed being wheat and barley. The bulk of the outward trade is in manufactured goods, iron and steel goods and machinery coming first, followed by cottons and woollens.

woollens.

The principal foreign trade is done with the United States, the United Kingdom, Russia, and Austria-Hungary.

With the United States.—Germany receives from the United States large supplies of cotton and cotton manufactures, copper, iron and steel manufactures, leather, meat and dairy produce. In return, Germany sends to the United States chemicals, drugs and dyes, fertilizers, fibres, and various textile and other manufactured goods.

Chief Imports.—Corn, groceries and food products, wool and woollens, cotton and cottons, ores and precious metals, earths, chemicals and drugs, wood, hides and skins, oils and fat, animals and animal products, silk and silk goods.

silk goods.

Chief Exports.—Iron and steel goods, machinery, textiles, chemicals and drugs, earths, ores and precious metals, hardware, groceries and food products, clothing, fancy goods, silk and silk goods, literary and art objects.

Communications.—The total length of the railroads in the empire is about 13,000 miles, of which about 92 per cent belong to the different states. There are 1,500 miles of inland canals, and 1,600 miles of ship canals. Berlin is the centre of the railway system. The great railway routes from western Europe to northern Germany and to all parts of Russia and to the central part of the northern plain by the Westphalian Gate, pass through Hanover to Berlin, and there diverge to the northeast by Königsberg to Petrograd, to the east by Warsaw to Moscow, and to the southeast by Breslau to Odessa. The most important lines in the south are those following each bank of the Rhine from Cologne to Basel on the Swiss frontier, the outlet of the Westphalian manufacturing district, to Italy through Switzerland and the St. Gothard tunnel. Switzerland and the St. Gothard tunnel.

Switzerland and the St. Gothard tunnel.

GOVERNMENT.—According to the constitution of April 16, 1871, all the states of Germany form an eternal union; the direction of political and military affairs is vested in the *Emperor*, who may declare war, but if it is not defensive, the consent of the Bundesrat, or Federal Council, is required. The Imperial army is under the supreme generalship of the Emperor, and there is a minister of war for each of the four kingdoms—Prussia, Bavaria, Saxony, and Württemberg—the Prussian war minister being also minister for the smaller states. The legislative functions of the empire are vested jointly in the *Reichstag* and the *Bundesrat*, and the Emperor has no veto on laws passed by these bodies. All laws for the Empire must receive the votes of an absolute majority of the Bundesrat and the Reichstag, and to take effect must be promulgated by the Emperor.

ceive the votes of an absolute majority of the Bundesrat and the Reichstag, and to take effect must be promulgated by the Emperor.

The Bundesrat, which represents the individual states of the empire, as the Reichstag represents the German nation, consists of sixty-one delegates, appointed by the governments of the individual states for each session. Of these, 17 sit for Prussia, 6 for Bavaria, 4 each for Württemberg and Saxony, 3 each for Baden, Hesse, and Alsace-Lorraine, I each for Mecklenburg-Schwerin and Brunswick, and I each for the remaining states, including Hamburg, Lübeck, and Bremen. The Bundesrat is mainly a confirming body, although it has the privilege of rejecting measures passed by the Reichstag. It has also a limited initiatory power, which it occasionally exercises. Members of the Bundesrat have the right of appearing in the Reichstag, and of speaking on any question in which the state they represent is directly interested. Members of the one chamber, however, are not eligible for election to the other, although they may sit in their respective provincial diets.

The Reichstag is composed of 397 members, elected by universal suffrage and ballot for the term of five years. Of these 236 constitute the elected

and ballot for the term of five years. Of these 236 constitute the elected of Prussia, 48 represent Bavaria, 23 Saxony, and the remainder the other states in due proportion, ranging from 1 to 17. Members are now paid \$750 per session with a deduction of \$5 for each day's absence.

GERMAN COLONIES

The German colonies and dependencies at the beginning of the Great War in 1914 had a total area of 1,134,046 square miles, with a population of about 12,969,300 of whom 24,170 (including garrison and police) were whites. Of these whites about 18,500 were settled Germans. The whole of these possessions were captured and occupied by the Allies within the first two years of war, with the exception of part of the difficult hinterland of German East Africa.

DEPENDENCIES	OATE OF ACQUISITION	AREA (sq. miles)	POPULATION
Africa Togoland Kamerun German Southwest Africa German East Africa	1884 1884 1884–90 1885–90	33,659 295,000 322,348 384,079	1,000,000 3,500,000 120,000 7,645,000
Kiauchau*	1898	2,750	84,000
Pacific German New Guinea Solomon, Caroline, Pelew, Marianne, and Mar-	1885-86	90,000	463,300
shall Islands	1886~99 1899	5,160 1,050	122,000 35,000
Total	. ;	1,134,046	12,969,300

^{*}Kiauchau was leased for a period of 99 years from China. The area of the leased territory and sphere of interest is 2,750 square miles; the area of the district proper is 193 square miles. The leased territory consists of the bay up to high-water mark, its islands, and the north and south tongues of land at the mouth of the harbour.

RUSSIA

Revolution March 8-16, 1917; Republic Formally Proclaimed September 14, 1917

Russia like France has grown outwards by expansion from a single centre. The Russian power that arose in the forest region and centred at Moscow gradually extended over the great plains. This steady expansion, down her great rivers and toward the sea, has been facilitated by the decline of the empires of Sweden, Poland, Turkey, Persia, and China. The absence of natural barriers has prevented the growth of strong local differences and enabled the autocratic central authority to impose its will upon every part. On the other hand, the relative isolation of Russia has contributed to a degree of civilization much less advanced than obtains in western Europe. To get into touch with the western states Peter the Great (1682–1725) founded the present capital, Petrograd, at the mouth of the Neva.

In the east and south the impossibility of drawing any permanent frontier has brought Russia up to the confines of Japan, China, and the buffer states of India, and threatens the independence of Persia. In the west, Finns, Poles, Roumanians, and Jews (see Racial Map of Europe, p. 22) constitute elements which Russia has failed either to assimilate or conciliate. What the Empire failed to accomplish may find solution under the Republican government which was established in March, 1917. The independence of Poland and Finland, either relative or absolute, may be looked for as an outcome of the Great War and of the Russian Revolution.

THE COSSACKS.—The Cossacks have played an important rôle in Russian history. The fate of the empire has often rested in their hands. It has been for them to decide whether an invading Tatar or Turkish host should be hurled back or reinforced, whether the Czar should be supported or kept in check.

The origin of the Cossacks is obscure. Intrepid adventurers, they spread from the Dnieper all over Eastern Russia. To the Cossacks of the Don (the most powerful tribe), Russia virtually owes her vast Siberian possessions. Long they resisted the Russian suzerainty, till the government had the inspiration of enlisting their warlike qualities and their incomparable horsemanship in the service of Russia. The Cossacks to-day supply the Russian army with a cavalry that is unrivalled in Europe.

The Cossacks do not form a regular army and in their social life they preserve many customs reminiscent of their ancient privileges. They do not pay the same taxes as the Tsar's other subjects, they do not draw lots for military service, but undertake to provide a certain number of horses and men, either for service on the Russian frontiers or in the interior. With the exception of the colonel, appointed by the minister of war, the Cossacks have the right to elect their own chiefs. . . .

The Cossack has to provide his own horse and arms, but in consideration of this receives from the Government a plot of land, which is increased at the birth of each son. The customs, tastes, and habits of these adventurous nomads have not been modified by contact with civilization. The Cossack's life is passed entirely out of doors; he returns home only at targeting to have an early of yedlar.

home only at rare intervals to have an orgy of vodka.

In Cossack towns and villages the only permanent population is composed of women, children, and old men; for while he has the strength, whatever his age, the Cossack prefers life in the open, and as soon as a boy is old enough to sit on a horse, his father puts him into the saddle and sets him galloping, while his mother from the door of the *isba* (cottage) encourages the small cavalier. While the Cossack

hunts in time of peace, or fights in time of war, the women keep the *stanitsa* (village), take care of their houses which they keep scrupulously clean, feed their cattle, cultivate the soil, in fact do all the laborious work of agriculture. These rough labours age them before their time, but do not damp their energy and activity. A wife is no longer the timid, trembling slave of her husband, as Gogol has painted her.¹

STRANGE CUSTOMS IN LITTLE RUSSIA.—The Little Russians are more truly Slavs than the Great Russians; there is less Finnish blood in their veins. The peasants are taller and more robust. Many of the peasant customs are of peculiar interest to the Western visitor.

They have a queer custom that a woman may do what she likes on a Monday, and, sad to relate, many of them spend that day in gossiping and drinking vodka in the taverns. . . . The door of a bad woman is tarred that she may feel herself in disgrace. In the winter evenings the younger women gather together to sing and work. A proverb warns the young man in search of a wife to choose with his ears rather than with his eyes. A child is swaddled carefully with red and black bands as soon after its birth as possible, with the idea that these will keep the devil from getting into the infant; this notion is peculiar to the peasants of Little Russia. When some one has died in the house a glass of water is placed in the window, that the spirit may wash itself in departing. A neighbour digs the grave, and is rewarded for this friendly service by a seat at the funeral repast. The dead person is carried out of the house feet foremost, so that he may not return. Formerly women were hired to wail, but that custom has been given up. Every girl has her wedding-dress got ready as soon as she is considered old enough to be married, and if she dies before her wedding it becomes her shroud. Every guest on returning from a funeral must go up to the stove and touch it with the right hand.²

Petrograd and Its Workmen.—As in most large cities, the growth of the population of Petrograd is mainly due to the influx of the rural element. There is also an annual migratory movement in connection with Petrograd that is peculiar. It is estimated that some 100,000 workmen of the peasant class come into the city regularly every spring and leave it every autumn. These are the bricklayers, masons, carpenters, and other artisans, who come to work on new houses and to repair old ones, which in many cases have suffered from the severities of the northern winters.

They may be seen any summer evening tramping in straggling crowds along the main thoroughfares, going to their short night's rest in holes and corners which serve them as lodgings in the densely populated wards. Or glimpses of them may be had through the windows of traktirs, or teahouses, where these workmen sip weak tea and listen to the gramophone. As a rule, the police keep them to the roadways, when they appear in any numbers, on account of their clothes, which are often mere rags covered with the dirt of their work, and perhaps also because of the unpleasant odour from Russians of this class. It occasionally happens that perfumes have to be used after them in rooms and palaces, especially in winter, when it is too cold outside to air the apartments by opening the windows.

And yet the Russian workman, in one respect, is very clean. He generally goes once a week to a public bath, where he scalds himself in the steaming chamber, and he may also have his body thrashed with birch twigs until his skin becomes the colour of a boiled lobster. This is a kind

¹A. S. Rappoport, "Home Life in Russia" (1913). ²Annette M. B. Meakin, "Russia Travels and Studies" (1906).

of massage, of very ancient origin, and peculiar to Russia in combination with the popular bath. The only objectionable circumstance is that the peasant or labourer wears the same clothes until they get too dirty, and somehow or other he cannot be induced to keep them the least bit clean.

As the workmen trudge to and from their occupations many of them may be seen carrying in their girdles their beloved axes, the favourite Russian implement, with which a peasant can make almost anything in wood without any other tool, from a log hut down to a child's toy. Being a denizen of a woody country, the Russian is naturally skilful in all manner of practical woodwork. The writer has seen a perfectly going wooden watch made by a Russian peasant, with the mechanism all of wood excepting the springs.

The nomadic character of a great many of these "hewers of wood and drawers of water" may be verified by a visit to any one of the four big railway stations late in the autumn, when large crowds of rough and grimy peasants day after day besiege the ticket offices, and sit about for hours on their dirty bundles, waiting for cheap trains to take them back

to their villages.1

A Russian Fair.—The scene is a curious one; hundreds of light carts, or telegues, are lined up on either side of the road, others left outside the houses; they obscure the view, block up the way, and are altogether a nuisance. The unharnessed horses peacefully eat out of the carts; there are the same number of carts as of families, no one comes to the fair on foot. In the intervals of driving a bargain, the men splash about in a little river which runs across the village; a cloud of dust hangs over the whole picture, shutting out the rays of the sun.

There is no very original merchandise to be bought in this dusty market—earthenware vessels, narrow-necked milk jugs, green polished bowls, and various articles in cut wood and horn more or less coarsely fashioned. What principally strikes the visitor are the large stacks of dry fish

which people buy and eat as we eat cakes.

Beer and vodka are sold in the taverns, and the yellow kvass is drunk all over the country. The kvass is a kind of household drink, which every housewife prepares according to her special recipe. Napoleon's soldiers, if we are to believe Tolstoi, called it pig's lemonade. Kvass is made of various herbs and grain distilled in hot water. Sometimes it has a bitter taste, sometimes sweet; in any case it is very

refreshing, and a favourite drink in Russia.

Here and there groups of hideous beggars of both sexes, dirty, ragged, and sinister looking, crouch in the dusty road in rings, chanting monotonous litanies in piercing tones. Money pours into their hats and aprons. The crowd circulates in high good humour, elbowing each other in the broiling sun; laughing, chatting, and nibbling sunflower seeds, without ceasing. Some of them sample the pastries which the salesmen fry in the open air. It is a real type of Russian fair, a dirty, good-humoured, evil-smelling crowd, containing an amazing number of drunkards.

The men wear pink or scarlet blouses; the women are dressed from head to foot in startling colours, red, violet, blue, yellow, a mixture dazzling to the eyes at close quarters, but seen at a distance, through the haze, the result is a

charming contrast to the gray landscape.2

A Moujik's Cottage.—The isba, or wooden cottage of the Great Russian peasant, is built usually of timber, with two or three windows all in a row, facing the village street, and a pointed roof. A generation back a chimney was an innovation hardly thought of, but now almost every isba is provided with one. The peasants were very slow to understand that an outlet for the smoke from the stove could be so built as not to conduct a current of freezing winter air into the room.

The roof is of planks, in parts where these can be cheaply obtained. . . . The outside cornices, windows, and window-shutters, are ornamented with carved woodwork, more or less profuse, according to the taste and pretensions of The interior consists of one living-room with a the owner. loft above it, and a storeroom; the living-room is about fifteen feet square, and exactly one quarter of it is filled by the huge brick or clay stove. A peasant in the government of Novgorod told me he kept a little fire in his stove all through the summer to keep the walls dry. The oven is so commodious that it is often made to do duty as a steam bath. The whole family—father, mother, and children—take what we should call a Turkish bath in it every Saturday, in those villages that are not provided with a public bath.

Yes, that is where we bake our bread, and where we bathe," said one woman, with a pleasant smile, as she opened her oven door and let me look in. "When it is very cold we sleep on the top," pointing to the flat surface of the stove, "but in warm weather we sleep here," and she pointed to a very narrow bench made of two or three planks which ran round the sides of the room; it was narrower than the seat of a railway

carriage.

In winter, if they let the icy air into their isba but for a minute, they must put more wood into the stove. When a whole family and two or three animals pass the nights, and most of the days, of a six months' winter, in one room, of which the windows are hermetically sealed, the result can be better imagined than described. The calf, the lambs, the fowls, cannot bear intense cold any more than their masters; they too must share the genial warmth given out

by the giant stove.

In the isba above described, the coil of iron, from one end of which a cradle was suspended, was like the closely-coiled body of a snake, in eight or nine circles, each of which was about as thick as a man's little finger, and the cradle hung from it like a child's toy at the end of a piece of elastic; the slightest touch of my hand set it gently bobbing up and down like an air balloon. Such a coil is in great request wherever a new baby appears upon the scene, and the village blacksmith always keeps a store of them ready for sale; they seem to be an invention peculiar to the Russian peas-

Superstitions.—The moujik is most superstitious and has a deep-rooted belief in witchcraft.

In times of epidemic, such as of cholera or typhoid fever, the widows and young girls of a village, after a secret conference, assemble late at night at the far end of the village dressed only in chemise and waistbelt and with hair hanging They take with them a plough. The idea is to plough the earth round the village to prevent infection.

The procession is opened by a young girl bearing an icon, surmounted by a candle; she is followed by another harnessed to a plough, which other women push behind to help her. A third girl follows, cracking a whip without ceasing—this is to drive away the epidemic, personated by the

devil.

All are armed with pokers, brooms, and sticks. They chant prayers in loud tones, and lower their voices in passing an isba (cottage), so as not to be heard. Woe to the curious who would assist at this spectacle; if he is discovered he runs the risk of being torn to pieces. Usually the widows and girls preserve the profoundest secrecy as to the hour and

sent for, and only when his spells have had no success, and the invalid is worse, do they hasten to the doctor, and then

it is generally too late.

For nothing in the world would a peasant work in the fields during Easter Week! For it is well known that wheat sown at Easter will not germinate. Then again, cabbages to be any good must be planted on Maundy Thursday. On certain days the peasant will break the ice to bathe because bathing on those days keeps you healthy all the year

¹G. Dobson, "St. Petersburg" (1910). A. S. Rappoport, "Home Life in Russia" (1913).

Annette M. B. Meakin, "Russia Travels and Studies" (1906).

And then again at Epiphany, when the cross is dipped into the water, they undress and throw themselves in, and then hurry home with a cask of water and warm themselves at the stove. The "Jordan" water must be taken care of and is a remedy against all illnesses, and if placed in the fields keeps away hailstorms. At the sound of thunder every one bathes, and he who will not go to the river or the stream at least washes at home. Pouring water from a milkpail in which there is an egg, through a wedding-ring, signifies that he who washes remains healthy, and the cow gives much milk, and the hens lay many eggs. Peas are sown in those fields which lie near the road, so that passers-by may pick the young pods if they please, for God pays those a thousand fold who help the poor wanderer.1

THE FINNS.—Finland is a land of pine forest, of rock, of river, and lake. It is the playground of Petrograd; for its frontier is but a couple of hours' distance by rail. The capital, Helsingfors, is surpassed by no other city in cleanliness, order, and all the externals of modern civilization. The Finns are a very interesting people.

The real ancestor of the Finn is his climate. He is hardy in body and hard in temperament; given to silence; laborious and conscientious; with many virtues and few graces. The fact that he makes a splendid sailor, tells much of his character, as it causes him to be found before the mast the world over—there is a special mission to Finnish sailors in San Francisco. He steers the tar-boats down his own perilous rapids, with the daring and coolness of the Indian in his canoe; he lives as frugally—and for the same reason—as the Highlander of Scotland; you cannot help but trust him, but it is often more than you can do to get him to talk. His agriculture is yet of the most primitive character; his favourite method of cultivation is to cut down the trees in winter, leave them to dry for a season, and then burn them, with the underwoods, to clear the land, and fertilize it at the same time.

Within his hard shell, however, there is a tender kernel of romance and playfulness and song. His immortal epic of the past, the Kalevala, still echoes in his heart, and his old men clasp hands and sing its runes, or others which come unbidden to their lips, in thrilling strophe and antistrophe. On Whitsun-eve, his young men light bonfires and make merry round them, and Christmas brings out his candles and fir-trees and fat fare. But he comes out of his shell most of all in midsummer for a Streitgesand, or Eisteddfod, when from far and near come singing-clubs and choirs, to be judged by a jury of their elders, in the court of a green glade, before an audience of the whole countryside.2

THE DEAD LAND OF POLAND.—Poland has been called the "Niobe of nations." Like Bohemia, it is one of the dead lands of Europe, a country with a great past, but which for three generations has been at the mercy of the three empires that rent it asunder. In 1815, 1830, 1848, and again in 1863 the Polish question brought Europe to the verge of war, and since 1863 it was one on which the rulers of the world have deliberately and perhaps wisely been

When we speak of Poland we think of the Poland and the Poles whom we know ourselves—weak, helpless, divided. But let us remember that there was an older Poland, one which occupied in Europe a position among the greatest monarchies. Five hundred years ago the Kings of Poland held a great place among the rulers of Europe. Two hundred and fifty years ago a Turkish army stood before the gates of Vienna. The great imperial city, the guardian of Christendom and civilization, was beleaguered by the hosts of the infidel and the barbarian. If it fell, a flood of desolation would sweep over Central Europe. Whence could help come? It came, and the saviour was John Sobieski, King of

Poland. And the next Sunday, in the Cathedral of Vienna, the preacher took as his text, "There was a man sent from God, and his name was John."

But now there is no King of Poland; there is no Poland.

Fifty years ago Metternich said he had no knowledge of Italy—Italy was merely a geographical expression. Poland is not even a geographical expression. There are the Polish provinces of Prussia, there is Galicia, there is the district of the Vistula. Poland is dead, the monarchy is gone; you can see the jewels of the Polish crown preserved in a museum in a German city; you can see the tombs of the kings and recall the past greatness of the kingdom in the churches at Cra-cow, the ancient capital. But Poland is rent asunder. It has been divided between three great monarchies, by which its territory was surrounded; but the memory of the crime has not been effaced in the history of Europe, and Europe will never be at peace or at rest until there has been reparation and restoration. The final judgment on it has been given by one of the participants. Maria Theresa of Austria wrote: "When all my lands were invaded, and I knew not where in the world I should find a place to be brought to bed in, I relied on my good right and the help of God. But

I must confess never in my life to have been in such trouble and am ashamed to show my face." The hour for which the world has waited so long has now come, and at last the diplomacy of Europe has mentioned the word Poland. The first word was spoken by the ruler of that country which has enjoyed for a hundred years the larger share of the booty. The Czar proclaimed that Poland should be restored, and his Allies have taken note of the words and embodied this in their proposals for terms of peace. It is a word which has not been lightly spoken and cannot be recalled. The President of the United States has also taken note of it and has specifically stated that an autonomous and independent Poland must be a part of any new system to which he and the American nation are to give their guarantee.1

in this thing, where not only public law cries to Heaven against us, but also all natural justice and sound reason,

SYNOPSIS OF RUSSIA IN EUROPE AND CAUCASIA

(See Map, p. 42)

Boundaries.—Russia is bounded on the north by the Arctic Ocean; on the east by Siberia; on the south by Roumania, Black Sea, Caucasus Mountains,² and the Caspian; and on the west by the Baltic, Prussia, and Austria. Climate.—Four climatic zones are recognized: the polar zone, on the Arctic Ocean, where polar bears and walruses are found; a frigid zone between 67° and 57° N. lat.; a temperate zone between 57° and 44° N. lat.; and the warm districts in the south of the Crimea, where lemons ripen.

The winters are everywhere, except in the Crimea, very long and cold (mercury freezes in the north), while the summers are brief and sultry, as is shown by the following annual mean temperatures. The mean temperature in January at Archangel is 9.6°F., at Petrograd 17.6°, Moscow 15.8°, Warsaw 24.8°, Odessa 28.4°, Astrakhan 23°, and Orenburg 9°. The mean temperatures in July at the same places are 58°F., 60.8°, 66.2°, 62.6°, 70.7°, 75.2°, and 68°.

75.2, and 68°.

The rainfall of Russia is less than that of western Europe. At Petrograd 18 inches fall per annum; at Kasan 14, at Astrakhan 4.8 inches. For months in winter the whole of Russia is covered with a thick mantle of snow, which contributes greatly to the fertility of the soil when the spring thaw sets in. The north wind and the dry east wind are very cold. See Climate

which contributes greatly to the fertility of the soil when the spring thaw sets in. The north wind and the dry east wind are very cold. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—(I) Agriculture and forestry. The frozen plains or tundras of northern Russia are succeeded by a wide belt of pine forests, and farther south by forests of oak and beech. These forests are under government control. In the clearings, rye, oats, flax, and hemp are grown. South of the forest-land is the most fertile region of Russia, a treeless plain extending from the Carpathians to the Urals south of 55°, and called the Land of the Black Earth, producing wheat, rye, and in the southwest maize. Potatoes are extensively grown, especially in the regions extending eastward from Germany. The steppes in south Russia are clothed with grass in spring and autumn, and great quantities of cattle, sheep, and horses are reared. See Vegetation Map of Europe, p. 26.

The bulk of the population is supported by agriculture. In the supply of rye, barley, flax, and hemp Russia holds first place, and in the supply of wheat and oats the second place.

(2) Mining.—Iron, gold, zinc, silver, and platinum are found in great abundance. The chief coal-fields are (1) around Tula to the south of Moscow, (2) on the west in Poland, (3) in the south between the rivers Donetz and Don near the Sea of Azof, where the best coal is obtained. The petro-

¹A. S. Rappoport, "Home Life in Russia" (1913). ²Henry Norman, "All the Russiaos" (1902).

¹J. W. Headlam, "The Dead Lands of Europe" (1917).

⁵The southeastern boundary has never been agreed upon by geographers. The Russians themselves take the crests of the Caucasus range as the dividing line.

leum wells on the western shore of the Caspian are very productive; and in

the productive; and in the productive; and in the production of petroleum Russia ranks next to the United States. Mines of rock salt are found in several places, and salt is also produced from the salt swamps of the steppes. See Economic Map of Europe, p. 27.

Manufactures.—Distilling and brewing are the most extensive industries of European Russia. On the whole the industries are more or less undeveloped, and are largely carried on in the homes of the people. But with its vast natural and human resources there is every indication that the new democratic Russia will extend its manufacturing industries to enormous dimensions. mous dimensions.

CHIEF CITIES AND INDUSTRIES OF RUSSIA IN EUROPE AND CAUCASIA

		-	1
CITY	POP. IN	PROVINCE OR	PRINCIPAL INOUSTRIES
	THOUSANDS	"GOVERNMENT"	
Astrakhan*	150	Astrakhan	Fisheries.
BAKH	237	Transcaucasia	Petroleum, flour, sulphuric acid,
DAKU	-31		tobacco, rock-salt.
BERDICHEF	77	Kief	Tobacco, soap, candles.
BIALYSTOK	86	Grodno	Woollens, silks, felt hats.
BREST-LITOVSK	57	Grodno	(Railway centre.)
CHERSON*OF KHERSON	92	Cherson	Rope making, woollens,
CRONSTADT	60	Petrograd	(Naval arsenal.) Cannon foun-
		The s	dry, shipbuilding.
CZENSTOCHOWA	56	Piotrkow Vitebsk	Cottons, paper.
DVINSK	111		Tanneries, breweries.
EKATERINODAR	107	Caucasus Nuland	Corl aver slething mashinesy
Helsingfors Ivanovo	154 168	Vladimir	Coal, sugar, clothing, machinery. Cotton manufacture.
Kasan*	188	Kasan	Leather goods, soap, cotton gonds.
KHARKOF*	248	Kharkof	Cattle, grain, leather, beet sugar.
Kier*	506	Kief	Beet sugar.
KISHENEF*	129	Bessarabia	Cattle, corn.
Kovno*	88	Kovno	Nails, wire-works, timber, metal
			goods.
KREMENCHUG	99	Poltava	Timber, salt, tallow.
Kursk*	75 67	Kursk	Agriculture.
LIBAU	67	Courland	Iron works, breweries, tobacco, ex-
	,	This is	plosives.
Looz	416	Piotrkow	Cottons, woollens, silks.
Lublin*	66	Lublin Minsk	Thread, linens, woollens.
Minsk* Moscow*	1,617	Moscow	Agriculture, timber.
NIKOLAVEVSKAYA	31	Astrakhan	Cottons, chemicals.
Nizhni Novgorod	100	Nizhni Novgorod	Flour-mills, distilleries, machine
INIZHNI NOVGOROS	109	THEMMITTOREGIOG	works.
Novocheekask*	53	Don Cossacks	Corn, wines, timber.
ODESSA	620	Bessarabia	Sugar refineries, paper.
OREL*	91	Orel	Rope making, flour, spinning.
Orenburg*	94	Orenburg	Hides, skins, tallow.
Petrograd*	2,018	Petrograd	Glass, tanneries, cottons, carpets.
Pinsk*	98	Pensa	Paper, fishing, agriculture.
POLTAVA*	84	Poltava	Flour, tobacco.
Riga*	370	Livonia	Timber, flax, hides, leather.
REVAL* ROSTOF	99	Esthonia Don Cossacks	Grain, timber, flax, hides.
KOSTOF	14	Don Cossacks	Agricultural machinery, flour, tim- ber.
SALYANY	121	Transcaucasia	Fishing.
SAMARA*	. 146	Samara	Hides, soap, tanneries, breweries.
SARATOF*	217	Saratof	Pottery, woollens, cottons, silks.
SEVASTOPOL	78	Taurida	(Naval station.)
TAGANROG	68	Ekaterinoslaf	Corn, wool, butter.
TIFLIS	328	Transcaucașia	Cotton, silk, soap, leather, silver,
			iron, manganese, rock-salt, brick.
TSARITSYN	101	Saratof	Fisheries, petroleum.
Tula*	137	Tula	Rifles, samovars.
TVER*	63	Tver	Cottons, glass, tanneries.
VILNA* VITEBSK*	193	Vilna Vitebsk	Timber, grain.
VITEBSK* VLADIKAVKAZ	104	Caucasus	Flax, corn, hemp. Distilleries.
VLADIKAVKAZ Voronezh*	79 79	Voronezh	Linens, woollens, tallow, corn,
TORONEDI	19	- Oronozai	flax.
WARSAW*	872	Poland	Iron, steel, plated silver, sugar.
YAROSLAF*	112	Yaroslaf	Cottons, flour, linens.
ZHITOMIR*	93	Volhynia	Timber, wooden wares, agricultural
			produce.
	1		

*Capital of province.

Capital.—Petrograd, on the Neva. Population 2,018,596. The name St. Petersburg was changed by Imperial Order, Sept. 1, 1914.

Chief Ports.—Petrograd, the naval depot and fortress Cronstadt, Narva, Riga, Libau, Pernau and Windau (Baltic); Reval, Helsingfors, and Viborg (Gulf of Finland); Archangel, and the new ice-free port of Alexandrovsk on Catherine Harbour (Arctic and White Seas); Odessa, Nikolaief, Sevastopol, Novorossisk, Berdiansk, and Batum, Taganrog, Mariupol, Rostof, and Kertch (Black Sea and Sea of Azof); Astrakhan, Derbent, and Baku (Caspian Sea).

The greatest amount of trade in Java Leville City

The greatest amount of trade is done by Odessa, the great grain port. Petrograd ranks next, judged by the volume of trade; but the Neva is blocked with ice for about five months in the year. Riga ranks third. Archangel

is closed for more than half the year.

Commerce.—The sea-borne commerce suffers to some extent from the

fact that the coasts are open to the Arctic waters and to inland seas, while even the ports on these inland seas are more or less blocked by ice during a severe winter. Commerce is mainly carried on with Germany, the United Kingdom, and the United States. Taking into account the size of the population and of the country, the amount of foreign trade is relatively small, and is far less per head than in any other European country.

With the United States.—Russia sends to the United States hides and skins, manufactured wool, chemicals, dyes, etc., and receives in return agricultural implements, iron and steel and manufactures, leather and manufactures, shores, corton and manufactures, copper and manufactures.

manufactures, fibres, cotton and manufactures, copper and manufactures,

cars, carriages, etc.

CHIEF IMPORTS.—Cotton, tea, and other colonial produce, iron and machinery, wool, wine, fruits, and vegetables.

CHIEF EXPORTS.—Wheat and other cereals, raw and dressed flax, linseed, timber, hides and skins, hemp, tallow, wool, spirits, tow, and

bristles.

COMMUNICATIONS.—There are about 28,000 miles of railways in European Russia and 47,000 miles in the whole of Russia, of which about 40,000 miles belong to the State. These figures do not include Finland (2,263 miles) or the Eastern China Railway (1,078 miles). In European Russia, exclusive of Finland, there are 77,721 miles of navigable rivers, canals, and lakes. In winter the inland waterways become highways for sledges.

Government.—March 15, 1917, ranks with the great dates of history; for on that day autocracy was overthrown in Russia and democracy came into its own. Up to that time the Czar was the supreme ruler and legislator, and the only source of power in the body politic. The Republic of Russia was formally recognized by Great Britain, France, Italy, and the United States on March 22, 1917.

Russia was formally recognized by Great Britain, France, Italy, and the United States on March 22, 1917.

THE CAUCASUS.—The Caucasus, or Caucasia, is bounded by the Black Sea, Russia in Europe, the Caspian Sea, Persia, and Turkey. Its area is 95,406 square miles; population 6,818,000.

The climate is varied. The mean annual temperature at Baku is 59°F.; at Tiflis 55.4°F. The rainfall at Tiflis is 17.5 inches, and on the Black Sea shores even 58 inches. The country is thus very ferrile, and agriculture is most prosperous. All kinds of grain, fruit, vines, cotton, saffron, and madder are produced.

Cattle and sheep farming, horse-breeding, besides bees and silk-worms, form important industries.

The minerals are considerable. Silver, iron, coal, copper, salt, sulphur,

Cattle and sheep farming, horse-breeding, besides bees and silk-worms, form important industries.

The minerals are considerable. Silver, iron, coal, copper, salt, sulphur, quicksilver, manganese, etc., abound. More important still is the production of petroleum, especially around Baku. The oil is piped to Batum on the Black Sea (over 500 miles) for export.

Chief exports: Petroleum, silk, flax, madder, wax, cattle, isinglass, caviare, lecches, boxwood. Chief imports: Cotton and silk fabrics, carpets, linen, colonial produce, metal goods, tobacco, dyes.

Capital, Tiflis, population 327,800.

Finland.—The Grand Duchy of Finland on the Gulfs of Finland and Bothnia was conquered by Russia from Sweden, and finally annexed in 1808. The area is 144,254 square miles, with a population of about 3,000,000 of whom about 2,600,000 are Finns, 400,000 Swedes, 19,000 Russians, 3,000 Germans, and 2,000 Lapps leading a nomadic life in the north. Nearly all the inhabitants are Lutherans. There is a university at Helsingfors, with 2,512 students, of whom 518 are women. The leading crops are rye, barley, oats, potatoes. Saw mills and paper manufactures provide the chief industry, and the forests are a great source of wealth, immense quanticies of timber being prepared for export; dairy produce is also exported. There are 2,582 miles of railroad and a merchant fleet of 3,120 vessels (mostly small), of which 400 are steamers.

The country was formerly governed by the Imperial Finnish Senate, of 22 members, with a Diet of 4 estates elected by the people. This form of government gave way on Jan. 1, 1907, to a new Constitution involving a single Chamber elected by universal suffrage of both sexes. Women are likewise eligible for election to the Chamber. Finland is thus the first country to concede woman suffrage and representation, and it is noteworthy that it has been gained without agitation. The Finnish troops only exist in name, the Diet having voced \$2,000,000 per annum to the Russian treasury in lieu of furnishing Finnish recrui

POLAND.—Russian Poland consists of ten provinces, with a total area of 49,159 square miles, and a population of about 13,000,000 of which about 14½ per cent are Jews. The country had a separate constitution from 1815 to 1830, and a separate government from 1830 to 1864; but in the latter to 1830, and a separate government from 1830 to 1804; but in the latter year it was deprived of its administrative independence, and in 1868 it was incorporated as an integral part of Russia, trial by jury was abolished, and the official use of the Polish language was prohibited. The majority of the inhabitants are Roman Catholics. About 76 per cent. of the population live in the rural districts, and the peasants own about 49 per cent. of the land; but of the total rural population of 7,000,000 about 3,000,000 own no land, and are dependent on hiring themselves out as labourers. Russian Poland is one of the largest pig-producing countries in Europe.

For Russia in Asia, see p. 314.

AUSTRIA-HUNGARY

(See Map, p. 43)

The position of Austria as the leading state of the Holy Roman Empire has been recorded in the introduction to Germany (see p. 267). Hungary was founded in the ninth century by Ural-Altaic invaders, and became a Christian country under St. Stephen (997-1038). Bohemia, a Slav state, was founded about the same time, and like Poland received Christianity from the Roman Church, not like Russia from the Greek Church. Both these kingdoms entered at first only into a personal union with Austria; their historic individuality was recognized in principle till 1804, and has constantly been asserted by the various nationalist parties.

The war with Prussia in 1866 had three effects: (1) Austria ceased to be part of Germany; (2) she had to cede Venetia to Italy; (3) she was forced to yield to the Hungarian demand for autonomy, and the Hapsburg monarchy became a Dual Monarchy, Francis Joseph being crowned King of Hungary on June 8, 1867.

The growth of the Austrian empire has been largely the result of successful marriages. The consolidation of the Hapsburg monarchy as the chief power in central and southeastern Europe was checked by two ambitions: (1) The endeavour to maintain its traditional position as the predominant German state; (2) the determination to preserve the share of the Spanish empire received in 1713-1715, as a result of the War of the Spanish Succession. This consisted of the southern Netherlands and territory in Italy. Austria's position in Germany was threatened by the rise of Prussia, and weakened by Frederick the Great's seizure of Silesia (1740). The Netherlands she was never able to administer as an integral part of her dominions.

Austria-Hungary is racially the most diversified of European states. The chief problems of its administration arise from the fact that its boundaries include members of eleven different nations, six of whom have kinsmen outside the monarchy (see *Racial Map of Europe*, p. 22). The following table shows the distribution of the different ethnical elements in the Dual Monarchy:

			F	RACI	3				AUSTRIA	HUNGARY	BOSNIA
GERMANS . CZECHS ! . SLOVAKS ! . POLES RUTHENES MAGYARS (II CROATS ! . SERBS ! . SLOVENES ROUMANIANS ! ITALIANS . OTHERS .	:	ding	900	0,00	000	lews	/. 		 9,950,266 6,435,983 4,967,984 3,518,854 783,334 1,252,940 275,422 768,422	2,037,435 1,967,970 472,587 10,050,575 1,833,162 { 1,106,471 } 2,949,032 27,307 374,105	1,875,000

THE PASSING SHOW IN VIENNA.—There is no better place than the Ring [Ring Strasse, a fashionable street in Vienna] in which to study the many and various types of the monarchy. Take your seat at the window of one of the cafés and look.

The spectacle is quite unique. To begin with, the crowd is as variegated as at a fair ground, and nowhere else does one find such handsome samples of the human race; in no other spot do the women impress you as they do here. A party of young girls advances; the purity and grace of their outlines would arouse the envy of a Greek statue; their cheeks have the delicate tints of a tea-rose; in their eyes are the deep shadows of the Orient; the arched feet and light step indicate Hungarian blood. Their dress displays a natural elegance of taste, while in their manner of walking there is something of the feline, swaying grace of the Parisienne. The Slav women of Bohemia and Poland also possess that powerful charm—racial individuality; they are large and strong of limb, with big, soft, black eyes, and skin like marble—a contrast at once poetical and unusual. They make one think of the swans of the North, or the White Nixies of the Netherlandish legends. Their features are finely chiseled and intelligent, and underneath this icy mask there burns a fiery spirit.

In this cosmopolitan assemblage one comes across Italians prattling in their melodious language, like swallows in a northern clime announcing the return of spring; and then there is the pretty Viennese herself, with her taking manners, her little nose tilted into the air, and her arch glances. The Viennese women preserve their brilliant colouring even when they get old, and belong to that type of beauty—a trifle too robust, perhaps—which has been rendered classic by some of the Italian masters.

Those women, decked out like the show windows of a

jeweller's shop, with a slight down on the upper lip, little curls on the temples, earrings, in the form of hoops, or little coffers or bells, are Jewesses, bankers' wives and millionaires—weather-beaten vessels which have navigated every sea, and long since doubled Cape Tempest. But how handsome their daughters are! and how expressive that Jewish cast of countenance and the great, full eyes can be!

The Viennese men are large and strongly built, though one does not meet on the Ring those giants who are to be seen beneath the lindens of Berlin. The Viennese type of face is intelligent, frank, and full of sprightly good humour. The Austrian race is an exuberant one. There is no country whose people have better blood in their veins. But . . . were it to be analyzed, a very small proportion of it would prove to be German.¹

PRIMITIVE CUSTOMS.—In Prague, the capital of Bohemia, I came in contact for the first time with the advance guard of a new race, the Slavs, writes Booker T. Washington, I say a new race, because although the Slavic peoples claim an antiquity as great as that of any other race in Europe, the masses of the race seem just now emerging from a condition of life more primitive than that of almost any other people in Europe.

Many little things, not only what I saw with my own eyes, but what I heard from others, gave me the impression as I travelled southward, that I was entering into a country where the masses of the people lived a simpler and more primitive existence than any I had seen elsewhere in Europe. I remember, for one thing, that I was one day startled to see, in the neighbourhood of the mining regions of Bohemia, a half-dozen women engaged in loading a coal barge—shovelling the coal into wheelbarrows and wheeling them along a narrow plank from the coal wharf to the ship alongside.

I was impressed, again, by the fact that several of the peoples of the Austrian Empire—the Moravians and Ruthenians are an illustration—still preserve their old tribal names. Certain other of these peoples still keep not only the tribal names, but many of the old tribal customs. Among most of the Slavic peoples, for example, custom still gives to the marriage ceremony the character of barter and sale. In fact, I found that in one of the large provincial towns in eastern Hungary the old "matrimonial fairs" are still kept On a certain day in each year hundreds of marriageable young women are brought down to this fair by their parents, where they may be seen seated on their trunks and surrounded by the cattle they expect to have for a dowry. Naturally young men come from all the surrounding country to attend this fair, and usually a lawyer sits out under a tree nearby prepared to draw up the marriage contract. In some cases as many as forty marriages are arranged in this way in a single day.2

AGRICULTURE IN HUNGARY.—The staple industry of Hungary is agriculture. The ambition of the people is commercial, but the strength and wealth of the country lie in the land.

Hungary is handicapped, however, by one grave defect, or perhaps it is better to say one urgent need—business capacity. The handling of things earthly, the participating in such mundane affairs as sale and barter, was, and is even to-day, alasl too far from the mind of the Hungarian youth when he is determining upon a vocation. Hungary is consequently full of men with a doctor's degree, who seek the more gilded avenues provided by the ministeriums, with its less lucrative livelihood. Therefore, where the need is less the market is glutted with labour, whilst in the larger fields of enterprise men of education and position are really needed. This habit of mind gave the Jews their great opportunity, and what of trade or commerce exists to-day in Hungary is practically a result of their patience and perseverance.³

¹Maria H. Lansdale, "Vienna and the Viennese" (1902).

²Booker T. Washington, "The Man Farthest Dowa" (1913).

³W. B. F. Bovill, "Hungary and the Hungarians" (1908).

A SLOVAK VILLAGE.—Let me give you just a glimpse of a Slovak village.

One of its distinguishing features is a brook, which invariably runs as a dividing line through its irregular and uneven street. At first sight it would seem that the population was composed of geese and women, for I scarcely remember ever passing through a village where I did not find a group of women knee-deep in the brook, pounding clothes out of shape, but into some degree of cleanliness. If you need a more complete picture, bring in some willows, and a wagoner contentedly watching his horse drink from the brook prior to driving through the shallow stream, with a horde of children, none too clean, gazing at all from a rickety foot-bridge. Such is a Slovak village.1

SYNOPSIS OF AUSTRIA-HUNGARY

(See Map. p. 43)

Boundaries.—Austria-Hungary is bounded on the north by Saxony, Prussia, and Russia; on the east by Russia and Roumania; on the south by Roumania, Serbia, Turkey, Montenegro, the Adriatic Sea, and Italy; and on the west by Switzerland and Bavaria.

CLIMATE.—Austria-Hungary lies exactly midway between the equator and the North Pole, but as its situation is "continental" and its surface very mountainous, it has very hot summers, followed by severe winters. An oceanic climate is enjoyed only by the Adriatic coast and the islands, where olive trees and laurels flourish in the open air. Vienna has a temperature of 30.5°F. in Jan. and 68°, in July; Budapest has 31°F. and 60°F.

The rainfall, corresponding to the physical features, varies greatly. The rainfall in Vienna is 22.6; in Ofen 17.8; in Prague 15.7. The Coastlands, South Tyrol, and South Hungary have very dry summers, followed by rainy winters. The climate is everywhere healthy except in the marshy regions. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—(1) Agriculture. About 40 per cent of the Dual Monarchy is under crops, and about 25 per cent is pasture land. In Austria oats and rye are grown to a greater extent than barley and wheat; while in Hungary with its richer soil wheat predominates over all other crops. The maize crop in Hungary is second only to wheat. Potatoes, sugar beet, and tobacco are extensively grown. Large supplies of timber are yielded by the extensive forests. On the Hungarian puzzas, which resemble the Russian steppes, horses, cattle, and sheep are raised.

(2) Minerals. Coal is the most valuable mineral of Austria; but is found to a much less extent in Hungary. The chief coal-field is that of Bohemia, which extends from near Prague westward beyond Pilsen. Another important coal-field is that of Silesia. Iron is found in the coal districts. Gold and silver are produced in Transylvania and Hungary, quicksilver at Idria near the Adriatic. Lead, zinc, and copper also occur. Petroleum and rock salt abound in Galicia. See Econo

universe.

(4) Fisheries. The sea fisheries of the Adriatic coast (about 1,000 miles) employ a large number of persons. The river and lake fisheries are also im-

(4) Fisheries. The sea fisheries of the Adriatic coast (about 1,000 miles) employ a large number of persons. The river and lake fisheries are also important industries, especially in Bohemia.

Manufactures.—The manufactures of Austria are extensive and include ironware, glassware, textiles, chemical preparations, and almost everything suggested by the primary products of the country. In Hungary the manufactures, apart from corn-milling, are of less importance; they include weaving, metal, stone, glass, wood, brewing, sugar, and tobacco industries.

CHIEF CITIES AND INDUSTRIES OF AUSTRIA

CITY	POP. IN THOUSANDS	PROVINCE	PRINCIPAL INOUSTRIES
Aussig Brunn* Budweis Cracow Czernowitz* Graz* Laibach* Lemeerg*	39 126 45 152 87 152 43 42 206	Bohemia Moravia Bohemia West Galicia Bukowina Styria Galicia Carniola Galicia	Woollens, chemicals, glass. Woollens, silks, leather. Earthenware, cloth, machinery. Machinery, soap, chemicals, tohacco. Corn-milling, brewing. Paper, vinegar, optical instruments. Petroleum, pottery. Paper, woollens, cotton goods. Matches, leather, machinery, chocolate.
LINZ* PILSEN POLA PRAGUE PRZEMYSL REICHENBERG SALZEURG* TARNOPOL TRIESTE* VIENNA*	68 80 58 224 36 36 36 34 152 2,031	Upper Austria Bohemia Istria Bohemia Galicia Bohemia Salzburg Galicia Küstenland Lower Austria	Woollens, silks, cotton goods. Beer, paper, machinery. Fish. timber Woollens, silks, porcelain. Machinery, timber, liqueurs. Woollens, linens, dyeing. Brewing, book-binding. Agriculture, corn, horses. Petroleum, iron foundries, chemicals. Machinery, pottery, steel, tin, and bronze ware; furniture, silks, leather, railway engines.

*Capital of province.

CAPITAL.—Vienna, on the Danube. Population 2,031,498.

CHIEF CITIES AND INDUSTRIES OF HUNGARY

CITY	POP, IN THOUSANDS	COUNTY	PRINCIPAL INDUSTRIES
ARAD* BUDAPEST*	63 880	Arad Pest-Pilis-Solt- Kiskun	Grain, alcohol, cattle, machinery. Machinery, chemicals, bricks, cut- lery, gold and silver ware, corn, cattle, wines.
DEBRECZEN* FIUME	93 50	Hajdu Croatia	Tobacco, cattle, horses. Paper, chemicals, flour, tanneries.
Hódmező-Vásárhely	62	Csongråd	Wine, agriculture.
Kecskemet	67	Pest-Pilis-Solt- Kiskun	Soap, leather, fruits.
Miskolcz*	51	Borsod	Porcelain, boots and shoes, grain,
Szegedin*	118	Csongråd	Soap, leather, saw-mills, distilleries.
Temesvar*	73	Temes	Tobacco, leather, grain, flour, spirits.

*Capital of county.

CAPITAL.—Budapest, on the Danube. Population 880,371.

CHIEF PORTS.—Trieste, at the head of the Adriatic, is the principal harbour; it is the headquarters of the Austrian Lloyd Steamship Company. Fiume, the harbour of Hungary, does a large export trade, but imports very little. The chief river-ports are Vienna, Budapest, and Linz, on the Danube; Prague, on the Elbe; Lemberg, on the Bug; and Cracow, on the Vistula. Pola is the naval station.

COMMERCE.—Commerce is carried on principally with Germany, Italy, Russia, France, and Switzerland, and through the ports of Trieste and Fiume, also direct with the United States, Great Britain, and other trans-

Fiume, also direct with the United States, Great Britain, and other transmarine countries.

Ausgleich.—This term, meaning "agreement, compromise," is the name given to various treaties between Austria and Hungary, especially to that of 1867 on the establishment of the dual government. Part of this Ausgleich created a commercial and customs union by which the two states form one commercial and customs territory, and possess the same system of coinage, weights and measures, and a joint bank of issue. This union is renewable every ten years, and failing a renewal each state provides separately for these matters. In 1897, no agreement was attained and the union was provisorily maintained.

provisorily maintained.

Chief Imports.—Raw cotton, textiles, iron and metals, coal and fuel, raw wool, machinery, hides and skins, cereals, coffee, raw silk, leather, tobacco, and books.

Chief Exports.—Sugar and confectionery, timber, woodwork, eggs,

coal and fuel, animals, hides, glass, woollens, paper and stationery, cottons, leather goods, malt, iron and manufactures, horses, and cereals.

Communications.—There are about 15,000 miles of railroad in Austria, of which 11,000 are owned by the state, and about the same mileage in Hungary, of which 11,300 are worked by the state.

In Austria, the length of navigable rivers and canals exceeds 4,000 miles, of which 200 miles, of which 200 miles, or which 200 miles, or which are considered to the same mileage.

of which 900 miles are navigable for steamers. In Hungary, more than 3,000 miles of rivers and canals are available for transport, and 2,000 miles

are navigable for steamers.

There are 30,000 miles of telegraph lines and 150,000 miles of wire in Austria; while in Hungary there are 16,500 miles of telegraph lines and

96,000 miles of wire.

There are 30,000 miles of telegraph lines and 150,000 miles of wire in Austria; while in Hungary there are 16,500 miles of telegraph lines and 96,000 miles of wire.

Government—Austria and Hungary have each its own constitution under a limited monarchy, and each possesses a separate parliament; but they have united in the establishment of a common army and navy, and in the conduct of foreign affairs. The requirements of the common services and the voting of the common budget are controlled by the Delegations. Of these there are two, each composed of 60 members, representing the legislative bodies of Austria and Hungary, the Upper Houses returning 20 and the Lower Houses 40 delegates. The members of the Delegations are appointed for one year, and are summoned annually by the Sovereign alternately at Vienna and at Budapest. They are, in effect, select committees of the legislative bodies.

Austrian Government—Austria, as distinct from Hungary, is governed by an Emperor and by the Reichstath, or Council of the Empire, consisting of an Upper House is composed of princes, nobles, prelates, and life members nominated by the Emperor (minimum 150). The Lower House is elected for six years. The number of deputies is 516. They receive \$4.05 per day while in attendance, with travelling expenses. All the countries represented in the Austrian Reichstrath possess self-government for matters not expressly reserved by the central government of the Empire.

Hungarian Government—The kingdom includes Hungary, Croatia-Slavonia, and Transylvania, and is governed by a King (the Emperor of Austria), and the Reichstag consisting of a House of Magnates and a House of Representatives. The former comprises 239 hereditary peers, some fifty-five ecclesiastical dignitaries, 69 life peers, archdukes, and certain officials. The House of Representatives contains 453 members elected for five years. Members of this house receive \$1,000 a year, with \$333 for house rent. The counties and communes of Hungary possess Councils, composed of elected re

ment. Sarajevo (population 52,000) is the capital of the territory.

¹W. B. F. Bovill, "Hungary and the Hungarians" (1908).

SWITZERLAND

(See Map, p. 44)

Perhaps no European country is so well-known the world over as Switzerland, which has an area of barely 16,000 square miles; yet, as the Scot boasted of his own mountainous home, if this were flattened out it would bulk much more largely. It is a veritable "meeting-place of the nations," especially English and Americans.

In the north German is principally spoken, a reminder of the overrunning of the country by a Teutonic tribe after the fall of the Roman dominion. Two thirds of the total population speak German; French is spoken in the southwest; and Italian by a small proportion in the southeast.

The Swiss Confederation dates back to the union of three Cantons or small states in 1291. Since then the number of Cantons has increased till it now reaches twenty-two. That the Swiss have been able to preserve their independence is largely owing to mountain barriers.

The grandeur of the Alpine scenery attracts many visitors, especially in the summer, and a considerable tourist industry has sprung up, which is of great value to Switzerland as a whole and in particular to such tourist centres as Lucerne.

CLIMBING THE ALPS.—The Alps are most accessible to the mountaineer. Railways, villages, and huts make approach to their bases easy. No elaborate outfit is required. Food and clothing do not have to be carried great distances by porters or mules, and shelter from cold at night or from sudden storm may be found in huts at the base of all the principal peaks.

The ascent of Mt. Blanc from Chamonix is not difficult. There are no rocks. Because of the cold and stormy weather the Glacier des Bossons, in the middle of which is the halfway cabin, was in such good condition that the crevasses had hardly had a chance to open and were still filled with snow. The only very steep parts of the ascent are near the top, on the second day. The first day's ascent lasted only seven hours. When we rose again at midnight, wind, clouds, and the promise of snow made it improbable that we would have the top so we asked comfortably at the be able to reach the top, so we stayed comfortably at the Grand Mulets cabin until the next day.

The only real danger on Mt. Blanc is from sudden storms, for the whole of the second day's route, up to the top and down again to Chamonix, is on snow, and the beaten tracks quickly become obliterated. If one strays far in the wrong direction, he will get among impassable crevasses, or will come too near to the slopes at the side and may be overwhelmed by avalanches of snow and ice from them; or he may perish from cold.

The ascent from the Grand Mulets to the Refuge Vallot above takes four or five hours, in good weather, and to the tiny summit observatory is another two hours. The Refuge Vallot has mattresses and blankets, but no wood and no food, and its altitude is 14,312 feet. With the best of conditions, the ascent is, therefore, a long pull, and for the last few hours very cold, because all snow and so high.

Hence it is never safe to start for the top without extra warm wraps, special protection for the feet, and a two days' supply of food. Because of the number of people that have been lost, one short section of the route has now been staked, yet shortly after my ascent two caravanes nearly perished far above this point, both from bad judgment. Many people go as far as the Grand Mulets, but one-third of those that start thence for the top turn back at the Grand Plateau, 12,900 feet, when two-thirds of the way up, for there it is that the freezing, the mountain sickness, heart failure, violent headache, or difficult breathing begins.

Starting from the Grand Mulets at 2.45 A. M., we went as fast as was possible over the fresh snow, up and up amid fairy-like scenes, first of full moonlight, then of dawn, and finally of sunrise on the massive stretches and slopes and summits of snow on every side. In seven hours we had reached the top, inclusive of about an hour and a half of stops, to eat, to make adjustments, and to photograph. From the Grand Plateau on, it had been intensely cold. had a violent headache, and the wind was piercing.

Above 15,000 feet I began to breathe less easily and could not continue to go quite so fast. The day was superb, and we were the only caravane. But we could linger only a half hour at the top, for we were to make the long and for a time difficult descent by the Italian side. A snow-covered ice cornice of great steepness took what seemed an interminable half hour to descend. Even step-cutting and crampons did not seem to make it safe from slipping. From it we had to descend the very steep Glacier du Dôme, which was a mass of crevasses at every turn. To descend it thus in a mass of crevasses at every turn. To descend it thus in the afternoon of a hot day meant plunging to the knees for two hours in soft snow and going in to the hips below every

crevasse over which I jumped.

The tiny hut at the foot was already filled by an ascending caravane, so five hours of interminable walking down the Glacier de Miage and over rough ground on a valley path must be added to our day's work. At 10 P. M., 19½ hours after our start, we came into Courmayeur, Italy, 11,800 feet below the summit but not especially tired and with no worse complaint than toes a little sore from the long descent with wet feet. I was the first woman who had reached the top that season, and ours the first caravane that had "traversed" Mt. Blanc that year.¹

SYNOPSIS OF SWITZERLAND (See Map, p. 44)

BOUNDARIES.—Switzerland is bounded on the north by Germany, on the east by Austria, on the south by Italy, and on the west by France.

CLIMATE.—The great irregularities of the surface are naturally accompanied by a corresponding variety of climate. Ticino, Vaud, and Geneva enjoy an almost Italian climate, with a mean temperature of 51° to 53.5°F., in which southern fruits ripen. On the Swiss plateaus and the lower mountain valleys a temperate climate prevails (mean temp., 50°F.), while in the higher valleys the climate is subject to great extremes. The rainfall, as is usual among lofty mountains, is very great.

as is usual among lofty mountains, is very great.

The foehn, a warm south wind, works great havoc by melting the snow, and so producing avalanches and inundations. See Climate Map of Europe,

and so producing avalanches and inundations. See Climate Map of Europe, pp. 24, 25.

Natural Productions.—(1) Agriculture. Agriculture is followed chiefly in the valleys, where wheat, oats, maize, barley, flax, hemp, and tobacco are produced. Vine culture is carried on in all the cantons, though sufficient is not raised for the domestic demand. In the warmer southern valleys such fruits as almonds, chestnuts, walnuts, olives, and lemons are produced. About one sixth of the total area is covered by forests. Cattle and goats are numerous, and great quantities of cheese are exported.

(2) Minerals. The mineral resources of Switzerland are poor. There is no coal and only a small quantity of iron.

Manufactures.—The manufactures consist chiefly of silks, cottons, linen, lace, thread, woollens, etc. Clocks and watches have long been the staple products of Geneva and Neuchâtel; while leather, gloves, pottery, cheese, tobacco, and snuff are made.

cheese, tobacco, and snuff are made.

CHIEF CITIES AND INDUSTRIES OF SWITZERLAND

CITY	POP. IN THOUSANDS	CANTON	PRINCIPAL INOUSTRIES
BASEL* BERN* CHAUX-DE-FONDS,	133 86	Basel Bern	Silks, paper, breweries. Woollens, linens, silks, watches.
LA* FRIBOURG*	38 20	Neuchâtel Fribourg	Watches Agriculture.
Geneva* Lausanne* Lucerne*	155 64 39	Geneva Vaud Lucerne	Watches, jewellery. (Tourist centre.) Grains, carriages, silks, cottona.
NEUCHATEL* SAINT GALLEN* WINTERTHUR	24 38 25	Neuchâtel Saint Gallen Zurich	Wines, chocolate. Lace, cottons, embroideries.
ZURICH*	191	Zurich	Cottons, wines, machinery. Cottons, silks.

*Capital of canton.

CAPITAL.—Bern, on the Aar. Population 85,651.

COMMERCE.—The foreign trade is that of a typical manufacturing country, food and raw materials being imported and manufactured goods exported. Germany and France are the two largest customers.

Dora Keen, in the National Geographic Magazine (1911).

CHIEF IMPORTS.—Silk, cereals, flour, animals, coal, cottons, woollens,

cotton, chemicals, iron, wine, ironware, machinery, sugar.

CHIEF EXPORTS.—Silks, clocks and watches, cottons, machinery, silk yarn, cheese, silk, chemicals, milk, chocolate, cotton yarn, skins.

Communications.—There are more than 3,500 miles of state railways; 2,000 miles of telegraph line (with 17,000 miles of wire); and 12,000 miles of telephone line (with over 27,200 miles of wire).

Government.—Switzerland is a Federal Republic. The legislature con-

sists of two Chambers, a State Council (Ständerath) of 44 members and a National Council (Nationalrath) of 189 members elected for three years. Both Chambers united are called the Federal Assembly (Bundes-Versammlung). The executive power is deputed to a Federal Council of seven members, elected for three years by the Assembly, the president and vice-president of which are elected annually, and are the first magistrates of the republic. The President of the Confederation receives a salary of 20,000 france (\$4,000) a year francs (\$4,000) a year.

ITALY

(See Map, p. 45)

Italy, the land of classic fame, inspirer of arts and letters, guardian of religion, and home of romance, has become in these days of rapid transportation the show-place of Europe.

The history of Italy has run parallel with that of Germany, with which country a large part of Italy was nominally united under the Holy Roman Empire. The formation of a great and united nation out of a disrupted country is one of the greatest events of our times. Its history, as Freeman points out, consists of four stages: "In the first the kingdom fell asunder into principalities. In the second the principalities vanished before the growth of the free cities. In the third the cities were again massed into principalities, till in the fourth the principalities were at last merged in a kingdom of united Italy." In Italy, as in Germany, Napoleon prepared the way for national unity. But the territorial dominion of the Pope was a greater obstacle to unity than the shadowy dominion of the Holy Roman Emperor in Germany.

The union of Italy, when it came, was effected rapidly. In 1859, King Victor Emmanuel of Sardinia with the aid of France wrested Piedmont from Austria, and in the following year Modena, Parma, and Tuscany voluntarily joined themselves to Victor Emmanuel's kingdom. Now it was that Garibaldi emancipated southern Italy and added the kingdom of Naples to the growing dominion of Victor Emmanuel. The Papal States, with the exception of the Patrimony of Peter (Rome and the vicinity), were also annexed with the approval of the populations; and in 1861 the kingdom of Italy was proclaimed with Victor Emmanuel as king. Five years later, in alliance with Prussia, Venetia was won from Austria; and in 1870 Italian troops occupied Rome and ended the temporal power of the Pope.

ITALIA IRREDENTA.—But the dream of Italian patriots is not quite realized; for the unification of Italy will not be complete so long as any part of "Unredeemed Italy" (Italia irredenta) remains under Austrian rule.

Italia Irredenta—Italy Unredeemed—is a picturesque phrase, and picturesque phrases are apt to be suspected, often with justice. This one, however, happens to express a simple truth. There still exist, beyond the present political frontiers of Italy but contiguous with them, considerable territories inhabited by people Italian by nationality, language, history, and culture, even as the territories themselves are Italian by every canon of political geography. For centuries they were Italian; it is hardly more than a century ago that they were forcibly torn from Italy. only are these territories essential to the unity and completeness of Italy, they are no less indispensable to her security and to her freedom. Through the possession of these territories Austria holds the keys to Italy—the mountains from which her armies can descend on the Italian plains, the harbours whence her fleet can assail the eastern coast of Italy.1

A GREAT NATION.—There is one thing always to be remembered when we are considering Italian questions: This Italy, united and thereby free, is a great nation.

Anthony Hope, "Why Italy Is With the Allies" (1917).

There is perhaps no single criterion judging by which we can call a nation great, but what possible criterion does not united and free Italy satisfy? Whether we judge by history and tradition, or by literature and art, or by territory, population, and resources, she is great. Greatness cannot give or increase the right to freedom-that depends upon other considerations—but it does and should extend the use to be made of freedom. Greatness brings responsibility. Italy is not only able, she is also bound, to make her voice heard in the world, to take her share in the government of it, to do her part in securing that right and not wrong ideals shall prevail, that a right and not a wrong conception of civilization shall triumph.

THE "WOMAN COUNTRY."—Italy is so beautiful, it is so rich in the treasures of art and the glories of nature, it is so gemmed and jewelled by the hand of man and the hand of God, it is altogether so exquisite and delectable that it is not easy to treat it quite like the rest of this hard, prosaic, practical, materialistic, latter-day Europe.

For generations Italy has been the chosen haunt of the sentimental traveller, the paradise of the literary and artistic holiday-maker. It is the Italy of Byron and Shelley, of Goethe and Heine, of Stendhal and George Sand, of Landor and Browning—that we know best, the Italy of the pictures and the palaces and the Vatican galleries, the Italy of the purple hills and sapphire seas; the land of song and music and verse, the "woman country" that inspires her alien lovers with an undying passion.

"Open my heart and you shall see 'Graved upon it, Italy."

Yes; but the Italy of the past, the Italy of a dream, of many

For there is another, a living, Italy, an Italy de nos jours, which resents this patronizing homage. If Italy is the woman nation she is feminist in the modern way, the way that leads to experience, activity, adventure. To lie passive and lovely, while wealthy people (who have made their money in trade) rhapsodize and domineer over her, is not to her mind: she will be up and doing herself. Young Italy, braced by the invigorating waters of the risorgimento, still stirring with the flush of adolescent nationhood, rebels under this worship of her ornaments and her charms.2

A DAY IN ROME.—In Rome the past and the present appear to meet, and every phase of life has its representatives. The sculptor, the painter, the antiquary, and the philosopher who delight in palaces, marble halls, pillared terraces, and orange groves; the pilgrim journeying from distant lands to fall before Christ's vicegerent upon earth; the lawyer who buries himself in musty libraries; the architect come from the far north to study colonnades and piazzas built for the bright summer, glorious as its sun; the lover of music who finds here the best opera in harmonious Italy; last of all, the idle rich wanderer, simply seeking amusement without true end or aim in life-Rome, in her boundless resources, will satisfy and fascinate.

Sidney Low, "Italy in the War" (1916).

[&]quot;Literally, "revival, resurrection." The term is commonly applied to the revival in art and letters in the 14th and 15th centuries in Italy.

In the morning I strolled into the Borghese Gallery, a superb palace. The apartments devoted to the picturegallery are of great extent. Close under the windows rolls the turbid Tiber, widened here into the Porta di Ripetta, with divers small squat steamers riding on its muddy current, which take passengers and cattle up the river as far

as possible into the Campagna.

Having admired the wonderful paintings of Titian,
Raphael, and other great Italian masters, I ordered our

carriage to drive by the Corso to the Aventine.

Near at hand a whole faubourg of palaces raise their proud heads in mutual rivalry. Presiding over the district appears the sumptuous church of the Gesu, dark and sombre in its magnificence. Here, in a gorgeous chapel ... lies Ignatius Loyola, the founder of the order of Jesuits—his

tomb as resplendent as his life was poor.

Let us on to the Aventine. We pass the temple of Vesta, the prettiest ruin perhaps in the world, and the church known as the Bocca della Verita, once a temple dedicated to Ceres. The sacred grove and the stately edifices, shrines, and temples which crowned the hill in ancient times have disappeared; the summit is now belted by a noble zone of churches.

Wandering over the hill to a terrace, I saw the city lying at my feet, divided by the river into two unequal portions. The sun shone hotly though in January, and all around prevailed that deathlike repose peculiar to mid-day in Italy. In the centre of the current, beyond the suspension bridge, lay the island of the Tiber. On the opposite side, gardens filled with richly laden orange and lemon trees enlivened the long sombre lines of the houses.

Descending the Aventine I came to the Palatine Hill, which rises abruptly aloft, crowned with the stupendous

ruins of the palace of the Cæsars.

Leaving this part of the city, I drove by the grandest of Rome's ruins, the Coliseum, toward the magnificent church of St. John Lateran, the parent church of Rome. A park-like avenue extends from this church to the church of St. Helena, famous for the possession of a fragment of the true cross, brought from Jerusalem by the Empress Helena, and enshrined in a chapel which no woman may enter.

Passing out of the city I drove by villas, gardens, and ruined aqueducts, and then re-entered the grand old walls that yet girdle Rome. We passed through a maze of dirty streets to the Forum of Trajan, where stands the sculptured marble column portraying the victories of that emperor, though his statue has been dethroned from the pillar and

St. Peter's erected in its place.

I hastened to the church of San Giuseppe-of-the-Carpenters, close to the Roman Forum, where lie the Mamertine prisons. The custode produced a torch, and we descended through an iron wicket to the first dungeon, a rather large room with walls formed of great blocks of solid tufa joined without cement. On one side of the ceiling were the remains of what once was a trap-door, now walled up, through which the bodies of prisoners condemned to the lingering tortures of starvation were drawn up after death.

Down some steep and narrow stairs we descended to the lower prison-small, confined. This is the Tullian dungeon, traced back to the time of the Roman kings. In this suffocating hole, where heavy and unwholesome air only penetrates through a small round hole opening into the upper prison, died by starvation that gallant son of the desert, Jugurtha, who nobly defended his country against

the Roman arms.

Tradition names this as the place where St. Peter was imprisoned, and as such it will be venerated by Christians until the day when earth shall exist no more.

Here is the spring, said to have gushed miraculously forth out of the solid stones to enable the apostle Peter and Paul to baptize, during their confinement, the keepers of the prison. The water wells up bright and pure, and is now enclosed in a kind of setting of masonry, and covered with a bronze lid.1

VENICE, THE CITY OF LAGOONS.—Before the end of the fifteenth century Venice the Magnificent was mistress of the

¹Frances Elliot (Mrs. G.), "Diary of an Idle Woman in Sicily" (1881).

seas. The maritime supremacy of Pisa and Genoa had been wrested from them by the flourishing city of lagoons. She owned city after city in the west, a vast colonial empire by sea, and was the focus of the whole world's commerce. This is the Venice of the past.

The Venice of modern fiction and drama is a thing of yesterday, a mere efflorescence of decay, a stage dream which the first ray of daylight must dissipate into dust. No prisoner, whose name is worth remembering, or whose sorrow deserved sympathy, ever crossed that "Bridge of Sighs," which is the centre of the Byronic ideal of Venice; no great merchant of Venice ever saw that Rialto under which the traveller now passes with breathless interest: the statue which Byron makes Faliero address as one of his great ancestors was erected to a soldier of fortune a hundred and fifty years after Faliero's death; and the most conspicuous parts of the city have been so entirely altered in the course of the last three centuries, that if Henry Dandolo or Francis Foscari could be summoned from their tombs, and stood each on the deck of his galley at the entrance of the Grand Canal, that renowned entrance, the painter's favourite subject, the novelist's favourite scene, where the water first narrows by the steps of the Church of La Salute—the mighty Doges would literally not recognize one stone of the great city, for whose sake, and by whose ingratitude, their gray hairs had been brought down with bitterness to the grave. The remains of their Venice lie hidden behind the cumbrous masses which were the delight of the nation in its dotage; hidden in many a grass-grown court, and silent pathway, and light-less canal, where the slow waves have sapped their foundations for five hundred years, and must soon prevail over them forever.1

THE GRAND CANAL.—The Grand Canal is to Venice what the Strand is to London, and Broadway to New York-the principal artery of the city's circulation. It is in the form of an S, which is crossed about the middle by the Rialto bridge.

The Grand Canal of Venice is the most wonderful thing in the world. No other town can afford such a beautiful, strange, and fairy-like spectacle: perhaps equally remarkable specimens of architecture may be found elsewhere, but they never occur under such picturesque conditions. every palace has a mirror to admire its beauty in, like a coquettish woman. The superb reality is doubled by a charming reflection. The waters lovingly caress the feet of those beautiful façades whose brows are kissed by white sunlight, and cradle them in a double sky. The little buildings and the big ships that can get so far seem to be moored expressly as a set-off, or as foregrounds for the convenience of decorators and water-colourists.2

America in Italy.—Amid the charm of northern Tuscany a number of factory chimneys bear witness to the industrial life of the region.

No less surprising is the fluent Americanese that everywhere greets the ear, tripping gaily from the tongues of countless americani, as those Italians who have been to either of our continents are jocularly called by those who have not. Incidentally, many of the chimneys are the property of those repatriated americani.

In every town that amounts to anything at all, the neat factory girls and men give the morning and the evening a distinctly American sense of rush and scurry—in sharp contrast to their leisurely neighbours-as they obey the big whistles that cut through the melodious appeal of the bells with their imperious summons: "Come! Plunge into my noise of loom and machine, my roar of furnace and grinding of gears, my smoky plumes that are the aura of gold. Forget your dolce far niente of the past. Look to the future. Work—hurry—make progress or die. Be independent—and happy!"3

¹ John Ruskin, "Stones of Venice" (1853).

⁸A. S. Riggs, in the National Geographic Magazine (Oct. 1916).

SYNOPSIS OF ITALY

(See Map, p. 45)

Boundaries .- Italy is bounded on the north and northwest by the Alps,

Boundaries.—Italy is bounded on the north and northwest by the Alps, which separate it from France, Switzerland, and Austria; on the east by the Adriatic Sea; and on the south and west by the Mediterranean.

CLIMATE.—The climate is generally warm and pleasant; but very hot and dry in the south. The winters in the valley of the Po are cold, and Italy with its evergreen foliage, as it is pictured in the imagination of northern peoples, does not begin until we reach the south of the Apennines. Turin has a mean temperature in January of 33.2°F., and in July of 72.5°F.; Rome has 47.3° and 74.3°F.; Palermo has 52.7° and 75.2°F. Sicily has a climate resembling that of the north of Africa. Speaking generally, Italy lies within the zone of winter rains. The period from June to September is almost rainless. Most rain falls in the north and west.

The hot sirocco, blowing from Africa, is prejudicial to health in Italy, while malarial fever prevails in some marshy districts. See Climate Map of Europe, pp. 24, 25.

While malarial fever prevails in some marshy districts. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—Agriculture is the occupation of over one-third of the population, wheat, maire, rice, and other grains being largely produced. The vine is grown in all parts of the country, and much land is under olives, flax, hemp, and such fruits as the orange, fig, and almond. Wine, silk, and oil are produced, and sulphur, zine, lead, and iron are mined. The Alpine slopes pasture cattle and supply dairy produce, especially cheese, for export. There are oyster, sardine, and coral fisheries on the coast on the coast.

MANUFACTURES.—The manufactures are woollen, cotton, silk, hemp, and linen yarns and tissues, leathers, straw and felt hats, furniture, chemical products, paper, agricultural and other machinery, prepared meats, artistic works (such as mosaics, pottery, Venetian glass, alabaster ornaments), etc. Sugar is extracted from beets in large quantities for home consumption.

CHIEF CITIES AND INDUSTRIES OF ITALY

СІТУ	POP. IN THOUSANDS	PROVINCE	PRINCIPAL INDUSTRIES
ALESSANORIA*	76	Alessandria	Linens, woollens, silks.
Ancona*	64	Ancooa	Shipbuilding.
RARI*	104	Bari	Cottons, linens, soap, glass, liqueurs.
BOLOGNA*	173	Bologna	Hemp, pottery.
Brescia*	83	Brescia	Iron ware, woollens, silks, matches.
CAGLIARI*	62	Cagliari	Lead, zinc, salt.
CATANIA*	211	Cagnan	Silks, linens,
FLORENCE*		Florence	
PLORENCE	233	Florence	Glass, silks, olives, wheat, stone
Foggia*		Farata	quarries.
Genoa*	76	Foggia Genoa	Agriculture.
	272	Genoa	Shipbuilding, sugar-refining, cement- work, silverwork.
Lucca*	75	Lucca	Agriculture, silks.
MESSINA*	127	Messina	Silks, olive oil, oranges, fisheries.
Milan*	599	Milan	Machinery, silks, cottons, linens,
			dyeing, printing.
Modena*	71	Modena	Silks, linens, agriculture, iron-wares.
Naples*	678	Naples	Silks, cottons, woollens, automo-
	·		biles, shipbuilding.
PADUA*	96	Padua	Corn, distilleries, chemicals, brew-
			eries, automobiles.
Palermo*	341	Palermo	Silks, cottons, leather, glass, gloves,
			wines, fruits.
Parma*	5.2	Parma	Silks, woollens, cottons, felt hats.
PERUGIA*	52 66	Perugia	Velvets, silks.
Pisa*	65	Pisa	Cottons, woollens, silks.
RAVENNA*	72	Ravenna	Lace, silks, printing.
REGGIO NELL'EMILIA	* 70	Reggionell' Emilia	Linens, silks, cattle, wine.
Rome*	542	Rome	Woollens, silks, earthenware, jewel-
200.00	340	1100	lery, mosaics.
TRAPANI*	60	Trapani	Fisheries.
Turin*	427	Turin	Silks, wine, olives.
VENICE*	161	Venice	Woollens, linens, glass, iron, coal,
1 211102	101	· Carret	timber, coral.
VERONA*	82	Verona	Silks, woollens, hats.
1 21011/1	32		ones, mosticita, mata.

*Capital of province.

CAPITAL.—Rome, on the Tiber. Population 542,125.
CHIEF PORTS.—Genoa, Venice, Naples, Leghorn, Bari, and Brindisi, in Italy; Palermo, Catania, and Messina in Sicily.
COMMERCE.—The chief trade is done with the United Kingdom, the United States, France, and Germany. The trade policy is protective.
CHIEF IMPORTS.—Cotton, wheat, coal, coke, chemicals, colonial produce, yarns, jute and manufactured goods, woollens, raw silk, silkworms' eggs and cocoons, machinery, iron and steel in bars, plates and rails, hardware, raw hides, horses and cows, oils, salt fish, dye-stuffs, tobacco, earthenware, etc.

etc.

CHIEF EXPORTS.—Silk, olive oil, wine, candied citron, sienna earths, pastes, coral, rags, boracic acid, raw and thrown silk, hemp, cattle, straw hats, rice, iron, zinc and copper ores, sulphur, marble, fruit, vegetables, fresh and prepared meats, poultry, chemical products, woods, roots, etc., for dyeing and tanning, artistic works, etc.

COMMUNICATIONS.—There are about 11,500 miles of railway and 33,500 miles of telegraph line. In five directions railway lines now lead from northern Italy across the Alps. From Turin the route leads westward by the Mont Cenis tunnel; from Milan there are two routes, one leading northwestward by the Simplon tunnel and one northward by the St. Gothard tunnel; from Verona a line leads northward over the Brenner Pass; from Venice there are several routes to the northeast across the Eastern Alps to Austria. The express overland route to the Orient is by the east coast to Austria. Brindisi. The express overland route to the Orient is by the east coast to

GOVERNMENT.—Italy is a limited monarchy. The legislature consists of a Senate of about 390 members and a Chamber of 508 deputies elected for five years. Deputies receive \$1,200 annually.

ITALIAN COLONIES

DEPENDENCIES							AREA (sq. miles)	POPULATION				
Eritrea (on the Red Sea) Italian Somaliland . Tripoli and Cyrenaica .	:			:	:		:	:	:		45,800 139,430 406,000	450,000 450,000 723,000
Total									٠		591,230	1,623,000

SPAIN

(See Map, p. 46)

Spain with its western neighbour Portugal forms the Iberian Peninsula. The Iberians were the ancient inhabitants of the country. For centuries Spain defended Christendom against the assaults of the Moors, and it is largely due to her heroic resistance that Europe was not submerged by Mohammedanism. In the age of geographical discovery and religious reformation Spain played a mighty part. She brought a large portion of the New World under her sway and established a colonial empire which, in spite of its many failings, planted the roots of whatever civilization exists to-day in Mexico and other Spanish-speaking republics of Latin America. Of her vast colonial empire little remains save the adjacent islands of the Canaries and the Balearic Islands.

The rocky peninsula of Gibraltar, "the key of the Mediterranean," is a strongly fortified British naval station and coaling station. It was taken in 1704 after a vigorous bombardment, and was secured to Great Britain by the treaty of Utrecht in 1713.

A BULL-FIGHT.—It is a common saying that a Spaniard will sell his shirt to buy a ticket for the bull-fight, so deeprooted is the Spanish passion for this brutal spectacle. Picture the arena at Seville on the occasion of a national fiesta.

A trumpet blared. Mounted alguaciles, or police, tricked out in ancient Spanish costume, on blue saddles, and with tall blue plumes in their hats, rode in and cleared the arena of all stragglers. A door opened, and forth issued the full circus troupe, making a fine show of filigree, and urging their wretched old nags to a last moment of equine pride and spirit. Amid roars of welcome, they flaunted across the sanded enclosure and saluted the presiding officer. He dropped the key of the toril, that dark series of cells into which the bulls had been driven some hours before. An alguaril caught the key and handed it to the torilero, who ran with it toward a second door, ominously surmounted by a great bull's head. Then there was a twinkling of the pink stockings and black sandals. Most of the gay company leaped the barrier, and even the chulos who remained in the ring placed themselves within convenient distance of the rail. Some of the picadores galloped out, but a few awaited the coming charge, their long pikes in rest. The door on which all eyes were bent flew open, and a bellowing red bull rushed The fierce, bloodthirsty, horrible yell that greeted him checked his impetuous onset. For a few seconds the creature stood stock-still, glaring at the scene.

In that strange, maddening sea of faces, that hubbub of hostile voices, the bull, as soon as his blinking eyes had effected the change from the darkness of the toril to the glaring light and gaudy colours of the coliseum, caught sight of a horseman with the familiar pike. Here was something that he recognized and hated. Lowering his head, the fiery brute dashed with a bellow at that tinselled figure. Ah, the pike had never been so sharp before! It went deep into his shoulder, but could not hold him back. He plunged his horns, those mighty spears, into the body of the helpless, blindfolded horse which the bicader whose inches was well. blindfolded horse, which the picador, whose jacket was well padded and whose legs were cased in iron, deliberately offered to his wrath. The poor horse shrieked, plunged, reeled, and

fell, the *chulos* deftly dragging away the armoured rider, while the bull ripped and trampled that quivering carcass, for whose torment no man cared, until it was a crimson, formless heap.

Such sickness swept over me that I did not know what followed. When I looked again, two bloody masses that had once been horses disfigured the arena, and the bull, stuck all over like a hedgehog with derisive, many-coloured darts, had gone down under Guerrita's steel.

It is the part of the mounted picador to draw off the first rage and vigour of the bull, weakening him, but not slaying him, by successive wounds. Then the jaunty banderilleros, the streamers of whose darts must correspond in colour with their costumes, supply a picturesque and amusing element, a comic interlude. Finally an espada, or matador, advances alone to despatch the tortured creature. The death-blow can be dealt only in one of several fashions, established by rule and precedent, and the *espada* who is startled into an unprofessional thrust reaps a bitter harvest of scoffs and hisses.

A team of gayly-caparisoned mules with jingling bells had meanwhile trundled away the mangled bodies of the slaughtered animals, fresh sand had been thrown over the places slippery with blood, and the band pealed the entrance of the second bull. This was a demon, black as a coal, with a marvellous pride and spirit that availed him nothing. Horse after horse crashed down before his furious rushes, while the circus, drunk with glee, shouted for more victims and more and more. It was a massacre. At last our hideous greed was glutted, and the banderilleros took their turn in baiting the now enfeebled but undaunted bull. Wildly he shook himself, the fore half of his body already a flood of crimson, to throw off the ignominy of those stinging darts. The chulos fretted and fooled him with their waving cloaks of red and yellow, till at last the creature grew hushed and sullen. A strain of music announced that the matador Fuentes was asking beneath the president's box permission to kill the bull. For my part, I gave the bull permission to kill the man. Fuentes, all pranked out in gray and gold, holding his keen blade behind him and flourishing a scarlet square of cloth, swinging from a rod, the muleta, advanced upon the brute. That bleeding body shook with a new access of rage, and the other espadas drew near and stood at watch. But even before a blow was struck the splendid, murdered creature sank to his knees, staggered up once more, sank again with crimson foam upon his mouth, and the music clashed jubilantly while Fuentes drove the weapon home.1

SYNOPSIS OF SPAIN (See Map, p. 46)

BOUNDARIES.—Spain is bounded on the north by the Pyrenees and Bay of Biscay; on the west by Portugal and the Atlantic; on the east by the Mediterranean; and on the south by the Mediterranean, the Strait of Gibraltar, and the Atlantic.

CLIMATE.—The climate is varied, but on the whole warm, dry, and healthful. The north is temperate, the centre has scorching summers and severe winters, the south and southeast are in some parts almost tropical. The mean temperature at Malaga in summer is 77°F., in winter 57°; at Barcelona 77° and 50°F., and at Madrid 75° and 44.6°F. The rainfall is very small. In the interior between 8 and 12 inches fall per annum; in many districts the destruction of the woods has aggravated this evil.

The hot south wind of Andalusia, known as the solano, and the cold north

The hot south wind of Andalusia, known as the solano, and the cold north wind called the gallego, are peculiar to Spain. See Climate Map of Europe,

Pp. 24, 25.

NATURAL PRODUCTIONS.—(1) Agriculture. The most fertile districts are in Valencia and Catalonia, where however, as throughout nearly the whole of Spain, agricultural development depends on irrigation works. The agricultural products comprise wheat, barley, oats, maize, rice, hemp, and flax. The country is well adapted to the cultivation of heat-loving fruits, as olives, oranges, lemons, almonds, pomegranates, and dates. The vine is cultivated in every province; in the southwest, especially at Jerez de la Frontera, the well-known sherry and tent wine are made; in the southeast, the Malaga and Alicante.

[(2) Minerals. Spain is rich in iron, copper, and lead; but its mineral resources are only partially exploited, and principally by foreign capital under foreign direction.

MANUFACTURES.—The manufactures have been developed to a less extent than the mineral resources of the country would indicate. The most important industrial region is situated around Barcelona in Catalonia, the chief port of Spain. The Catalonians are exceptionally industrious. There is a Spanish proverb which says that the Catalonians win bread from stones.

CHIEF CITIES AND INDUSTRIES OF SPAIN

СІТУ	POP. IN THOUSANDS	PROVINCE	PRINCIPAL INDUSTRIES
Alicante* Almeria* ' Barcelona*	55 48 599	Alicante Almeria Barcelona	Wines, fruits. Lead, esparto grass. Woollens, cottons, silks, wines,
Bilbao Cadiz* Cartagena Cordoya*	94 69 103 67	Vizcaya Cadiz Murcia Cordova	cigarette paper. Iron, steel, shipbuilding. Sherry wine, fruits. Lead, iron, oranges, esparto grass. Spirits, textiles.
COEUÑA* GIJON	47 55 81	Coruña Oviedo	Tobacco, sardine and herring fish- eries. Cigars.
GRANADA* JEREZ DE LA FRON- TERA	64	Granada Cadiz	Liqueurs, soap, paper, coarse linens, woollens. Sherry wine.
Lorca Madrid*	73 594	Murcia Madrid	Soap, earthenware, lead, textiles. Leather, fans, umbrellas, chemicals, varnishes, gloves, furniture, soap,
MALAGA*	136	Malaga	traneries, paper, iron. Wines, oranges, cottons, iron, pottery, olive oil, canary seed.
Murcia* Oviedo*	125 55 68	Murcia Oviedo	Textiles, flour, leather, hats. Hats, napery, arms.
Palma* Santander*	65	Balearic Islands Santander	Shipbuilding. Cigars, breweries, tanneries, sugar, candles, hats.
SEVILLE*	158	Seville	Oranges, tobacco, machinery, choco- late, soap, corks, silks, liqueurs.
VALLADOLID*	233 75	Valencia Valladolid	Silks, raisins, oranges. Silks, cottons, hats, woollens, jewellery, paper.
Zaragoza*	52	Zaragoza	Iron, tanneries, candles, soap, glass, porcelain.

*Capital of province.

CAPITAL.—Madrid, on the Manzanares. Population 594,279.
CHIEF PORTS.—On the Atlantic: Cadiz, Santander, Bilbao, Coruña, and Ferrol. On the Mediterranean: Barcelona, Tarragona, Valencia, Alicante, Cartagena, and Malaga.
COMMERCE.—Trade was for many years mostly confined to France and Great Britain; but Germany has now become a serious competitor, while the United States and Belgium share an increasing proportion of Spanish trade. Home manufacture is rigidly protected by high customs duties.
CHIEF IMPORTS.—Raw cotton, spirits, fish, wheat and flour, sugar, coal, timber, woollen manufactures, machinery and railway materials, hides, etc.

CHIEF EXPORTS.—Wine, copper, lead, iron ores, olive oil, raisins, oranges, cork, esparto grass, wool, salt, quicksilver, grapes, etc.

Communications.—There are a little over 9,000 miles of railroad

COMMUNICATIONS.—There are a little over 9,000 miles of railroad in operation; and 60,000 miles of telegraph line.

GOVERNMENT.—Spain is a constitutional monarchy. The legislative power is vested in the Cortes with the King. The Cortes consist of a Senter and Congress. The latter contains 450 deputies, elected for five years.

COLONIES.—By the war with the United States in 1898 Spain lost Cuba and all her West Indian possessions, besides the Philippine Islands. The Caroline, Pelew, and Ladrone Islands (except Guam, which was ceded to the United States) were sold to Germany in 1899.

The colonies of Spain have a total area of about 86,000 square miles, with a population of 236,000.

a population of 236,000.

Fernando Po is a volcanic island in the Bight of Biafra, off the west coast of Africa. It is used as a place of exile for political offenders. The other settlements in west Africa include Spanish Guinea (area 12,000 square miles; population 200,000) and Rio de Oro and Adrar (area 73,000 square

miles; population 12,000).

Morocco. By a treaty signed on November 27, 1912, between France and Spain, the latter acquired a zone or sphere of influence in north Morocco, the capital being Tetuan, where the Sultan's authority is represented by a Khalifa.

PORTUGAL

(See Map, p. 46)

Portugal, the Lusitania of the Romans, is relatively a recent political development. Under the powerful Burgundian ruler John the Great (1385-1433), the Portuguese first projected those Atlantic discoveries on the African coast, fraught with such territorial and commercial advantages

Portuguese navigator, Vasco da Gama, rounded the Cape of Good Hope and explored the Indian Ocean. This was the Golden Age of Portuguese history. Not only was a colonial empire founded in the East, but while Columbus was still voyaging with only partial success in the West Indies, Brazil

to the nation. Before the close of the fifteenth century a

¹Katherine Lee Bates, "Spanish Highways and Byways" (1900).

was discovered, and the influence of Portugal was felt from the Amazon to the Indus.

The later history of Portugal is full of revolutions and counter-revolutions. In 1910 the monarchy was overthrown and a republic declared.

LISBON.—Two cities in Portugal dominate the whole country-Lisbon and Oporto. Both are seaports, but Lisbon is the seat of government and has the superior advantage of offering to navigation one of the finest natural havens of

The favourable site of the city is beyond dispute. Its beauty of aspect has been eulogized not only by poets, but by writers little given to fine descriptions. On the north bank of the Tagus, twelve miles from the open sea, Lisbon couched once like ancient Rome upon seven hills, but now overflows the slopes and ridges of eleven. The eye rests upon a succession of amphitheatres, built up with tier upon tier of houses, great and small, which the sorcery of Lusitanian sunlight transfigures into the semblance of a city of palaces and many mansions built up of marbles of delicate and varied hues.

The oldest part of the city, on the east, is the Alfama, which dates back to Roman and Moorish times. Its narrow, winding alleys still retain much of their mediæval aspect, almost rivalling the slums of Oporto in their picturesque squalor.

THE NIGHT WATCHMAN.—One survival of olden days when security was less assured is found in the night watchman (guarda noite) hired by individual house-owners or residents to parade the street and keep guard on their property. This watchman wears a lantern attached to his belt, and carries a big bunch of skeleton keys to the number sometimes of fifty.

A startled resident has been known to hear movement in the lower part of the house, and then make discovery that his guarda noite is below, having entered to assure himself that all is safe. When people return home late at night from theatre or other place of entertainment, there is the useful watchman close at hand waiting with his bunch of keys to open the door. The streets are splendidly lighted, especially on the electric car routes; and though very quiet in the suburbs late at night, in the city there is movement and life until the small hours of the morning; in fact strangers smile and say the Portuguese never go to bed. One reason for this is the late hour to which places of amusement are open. There is a law compelling them to close at midnight, and this fixed time is always pushed to its limit. The electric cars, supposed to run up to midnight, can often be heard passing through the streets up to 2 and even 2:30 early morning. It all depends upon the hour at which the last run begins and upon the delay on the route.¹

THE DOG IN PORTUGAL.—There seem to be two parallel lines of traditionary opinion in regard to the dog. One that comes presumably from Moorish times is that the dog is an accursed beast; the other, which seems to have been inherited from the Gothic races, or perhaps derived something from classic times, sets the dog high in esteem and affection.

In the province of Beira-Alta, a stronghold of the Gothic race, and a pastoral region, the shepherds who live in the mountains hold the very breath and saliva of dogs to be of sovereign effect in wounds and scratches. These shepherds show their esteem for the dog too by having bred the Serra d'Estrella race of wolf-hounds, one of the noblest breeds of dog in existence.

On the other hand, in southern Portugal, where Moorish influence had later sway, and where probably Moorish

blood may run in the peasants' veins more freely than in the north, the howling of a dog by night, which the northern Portuguese disregard, is held to be of very evil augury. A southerner, hearing it after dark, slips his feet for a moment out of the Moorish slippers he wears, and repeats this countercharm-

> "Tude o auguro Sobre teu couro." "On thy leather alight All the ills of this night."1

LIFE IN THE AZORES.—The people of the Azores live very simply, their diet consisting chiefly of maize bread, eggs, a very little fish, and cabbage soup.

The women of the lower classes usually wear a peculiar dress consisting of a long, dark blue cloak (capote), to which is attached a huge, stiff hood (capella), which quite hides the wearer's face. It forms a complete disguise, and any woman can walk through the streets without the least fear of recognition. When I first saw this quaint outfit, I imagined it the dress of some religious order. Curiously enough, the one ambition of the Azorian working-woman is to be able to discard this really picturesque costume, and parade in the tawdry finery of Paris and London. To be the proud wearer of a hat in the latest fashion is the fond dream of the peasant girl. To earn enough money for this purpose, she willingly braves the perils and discomforts of emigration to America to obtain work in the factories.

It makes one's heart bleed to see the cruel treatment of animals that goes on unchecked and seemingly unnoticed. The donkey is the poor man's steed, and I have seen these patient creatures labouring up the rudely-paved streets almost broken down with their laden panniers, and one or frequently two rustics on their backs. It seems to be the custom to load the animal with as much as it can stagger under, and then for the driver to perch himself on top of the load, punctuating his ride by stabbing at the poor brute with the pointed end of his stick.

The better class of Portuguese in the Azores-those of the old patrician blood-are really charming people. As a mark of esteem and hospitality they never allow you to leave them after a first visit without pressingly "offering you their house." I had numerous such "gifts" of Azorian property, but, knowing they were not intended to be taken seriously, I made no attempt to take possession!

The unmarried women rarely walk abroad even in daylight without being accompanied by an elderly chaperon. It is curious and amusing to see these couples walking in single file along the streets. I have never seen them walking side by side; and I was told that the custom originated in an endeavour to frustrate the surreptitious passing of billets doux or other love tokens. It is, at any rate, the ruling of the Azorian Mrs. Grundy, and though its object is obscure, in view of the liberty given for promiscuous flirtations from the low balconies and rez-de-chaussée windows, it is a custom which is likely to die hard.2

SYNOPSIS OF PORTUGAL

(See Map, p. 46)

Boundaries.-Portugal is bounded on the north and east by Spain, and

on the south and west by the Atlantic Ocean.

CLIMATE.—Owing to the neighbourhood of the sea the climate of Portugal is moister and more agreeable than that of Spain. Speaking generally, it is

is moister and more agreeable than that of Spain. Speaking generally, it is temperate and healthful. Great heat is confined to the south. Lisbon has a mean temperature in Jan. of 50°F., and in July of 69.8°F.

The rainfall is considerable. The neighbourhood of Coimbra is one of the wettest parts of the continent. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—(1) Agriculture. The chief products are wheat, barley, oats, maize, flax, hemp, and the vine in elevated tracts; in the low-lands, rice, olives, oranges, lemons, citrons, figs, and almonds. There are extensive forests of oak, chestnut, sea-pine, and cork. The cultivation of the vine and the olive are among the chief branches of industry; the rich red wine known to us as "port" is shipped from Oporto.

(2) Minerals. Portugal is rich in minerals; copper, lead, tin, antimony, coal, manganese, iron, slate, and bay-salt are produced.

MANUFACTURES.—The manufactures are limited, and consist of gloves, textiles, metal and earthenware goods, tobacco, cigars, etc.

¹A. C. Inchbold, "Lisbon and Cintra" (1908).

¹Oswald Crawfurd, "Round the Calendar in Portugal" (1890). ³Annie Dorothy Mawson, "Off the Beaten Track" (1909).

CHIEF CITIES AND INDUSTRIES OF PORTUGAL

CITY	POP. IN THOUSANDS	DISTRICT	PRINCIPAL INDUSTRIES					
Braga*	30	Minho	Fire-arms, cutlery, jewellery, felt					
Coimbra* Lisbon*	21 435	Beira Estremadura	hats. Fisheries, pottery, leather, hats. Shipbuilding, fisheries, silks, so2p, tobacco, preserved foods, cement,					
Oporto*	194	Minho	corks. Hats, silks, paper, pottery, lace,					
SETÜBAL	25	Lisbon	glass. Lemons, wines, bay-salt, olives.					

*Capital of district.

CAPITAL.—Lisbon, on the Tagus. Population 435,359.
CHIEF PORTS.—Lisbon, Oporto, and Setúbal.
COMMERCE.—The chief trade is with the United Kingdom; next come France, United States, Germany, Spain, and Brazil.
CHIEF IMPORTS.—Hardware, cotton and woollen stuffs, machinery, wheat, sugar, dried fish, coal.
CHIEF Exports.—Half the total exports consists of wine, which is the chief industrial product of the country; others are cork, cattle, copper ore, fruits, oil, sardines, and salt.
COMMUNICATIONS.—There are about 2,000 miles of railroad, and 7,000 miles of telegraph lines.

miles of telegraph lines.

Government.—The Republic of Portugal has two legislative chambers—a National Council and a Senate. The National Council is elected for three years by direct suffrage. The Senate is elected by the municipal councils. Half the members retire every three years. The two Chambers united constitute the Congress of the Republic. The President is elected by both chambers for four years, and cannot be reëlected. He receives an annual salary of \$13,000, with \$6,500 for allowances.

PORTUGUESE COLONIES

DEPENDENCIES							(sq. miles)	POPULATION						
Asia														
Portuguese India (Goa,	Dar	nan	, D	iu)									1,470	605,000
Macao													4	80,000
Timor					•		٠	٠	٠	٠	٠	•	7,450	300,000
Cape Verde Islands													1,475	150,000
Portuguese Guinea													14,000	400,000
São Thomé and Princip													442	45,000
Portuguese West Africa	(An	gola	a) ,										484,000	4,119,000
Portuguese East Africa	(Mo	zan	ibio	que)	٠		٠	•	٠	٠	٠	293,860	3,120,000
Total													802,701	8,819,000

The Azores (capital Ponta Delgada) and Madeira Islands (capital Funchal) are integral parts of Portugal.

THE BALKAN STATES

(See Map, p. 11)

The Balkan Peninsula, with its medley of tongues and races, has been the scene of various wars and uprisings, especially during the past two generations. The Balkan States have been the firebrand which on more than one occasion threatened to set the whole of Europe in a blaze. The Balkan Wars, which wrested practically the whole of European Turkey from the Ottoman government, were fortunately localized; although the two powerful onlookers-Russia and Austria—were at one time on the verge of war. But the respite was brief. The assassination of the Archduke Francis Ferdinand at Sarajevo on July 28, 1914, not only set the Balkans once more aflame but kindled a world conflagration.

At the beginning of the nineteenth century the whole of the Balkan Peninsula was directly under Turkish rule; but a land so divided by mountains and sea could not permanently be held by relatively few people of an alien race, more particularly since that race has made itself infamous by its misrule and its atrocities toward subject peoples.

In 1830 Greece gained its independence after a long struggle. The land of Greece, the birthplace of European culture, had no existence as a state during the Middle Ages. Ancient Greece formed part of the Eastern Roman or Byzantine Empire. That empire was so Hellenized that it is commonly spoken of as the Greek Empire, and Constantinople (not Athens) became the real Greek centre. In 1453, when the Turks swept westward, Constantinople and the Balkan provinces fell before the invaders, and the glory of Greece lived only in classic story.

After the war of 1878 Turkey paid the price of Russian victory, and recognized the independence of Roumania, Serbia, and Montenegro. Bulgaria at this time became a self-governing principality, yet still subject to the Porte; but in 1908 the Prince renounced his allegiance and assumed the title of Tsar.

It is essential to the peace of Europe that the integrity of each of these Balkan States should be maintained. A glance at the map will show that Serbia and Bulgaria command the highway to the Near East. Were this highway to be controlled by a Teutonic power, and with a subservient Turkey at the farther end of the line, the result can be readily imagined by any student of international affairs.

CRETE.—The historic island of Crete, which had been captured by the Turks in 1669, declared itself part of the Hellenic kingdom in 1912, and was formally handed over to Greece by the protecting powers (Great Britain, France, Russia, and Italy) on February 15, 1913. Crete is the birthplace of the ardent patriot and renowned statesman Eleutherios Venizelos.

IMPRESSIONS OF MONTENEGRO.—Even in the warmth of a brilliant October day, writes Lee Meriwether, the approach to Montenegro is gloomy and forbidding; it merits its name, "Black Mountain." As we halted a moment on the summit of the pass, one of our fellow-passengers, a German, exclaimed: "Ein Felsen Meer!"—a crag sea, a sea of crags. And that is what it is. On every side, as far as the eye can reach, a prodigious mass of huge boulders!

It is said the Montenegrins came originally from Scrbia to escape Turkish rule—from which it is plain Turkish rule must have been pretty bad. For, assuredly, no one would elect to live amid a mass of crags and rocks unless the alternative were very disagreeable indeed.

Cetinie, the capital, is situated in a valley hemmed in on all sides by towering rocks. Our automobile descended into this wild valley and dashed down a long street to the post-office. From the post-office we walked to the hotel and felt like pigmies as we passed the big men of Montenegro. I do not recall seeing any man in Cetinje who was less than six feet tall, while most of them must have been six feet three or four inches. And all go armed to the teeth, revolvers, swords, and daggers in their broad belts; their heads thrown back, stalwart and erect, they look as proud and haughty in their bearing as if every man of them were a king. We spent several days in this toy kingdom—for kingdom it now is, the Prince having been recently turned into

The contrast between the rude simplicity of the little village and its pretentions to royalty is amusing. The town has one long street flanked on both sides by modest one and two storey houses; there are a dozen or so short streets which intersect the main street, and on one of these little cross streets are the "palaces" of King Peter and of his son, Prince Mirko. The King's palace is a plain dwelling about as large as a fourth-rate residence in St. Louis; the Prince's palace is a two-storey cottage about as big as the home of an average American carpenter. It touches the houses to its right and left and has no yard in front of it—the little porch abuts the sidewalk. As we strolled by we saw through the

open windows a servant setting His Highness' dinner-table, and presently His Highness, a handsome, athletic young fellow, came out on the front porch and sat there smoking cigarettes. People who passed saluted, and the Prince nodded his head-it was all so plain, so commonplace that the use of royal titles seemed a bit ridiculous.1

Montenegrin Traits.—The Montenegrins present many of the characteristics of a race little affected by modern civilization. Warlike valour constitutes a man's chief claim to distinction. Women occupy an inferior position; they work in the fields, carry heavy burdens, and owing to the drudgery imposed on them from childhood they age rapidly, and are short and stunted.

Dancing is a favourite pastime. Two characteristic forms are the slow and stately ring-dance (kolo), in which women sometimes participate, though it is usually performed by a circle of men; and the livelier measure for both sexes (oro), in which the couples face one another, leaping high into the air, while each man encourages his partner by rapid revolver-firing.

Women chant wild dirges, generally improvised, over the dead; mourners try to excel one another in demonstrations of grief; and funerals are celebrated by an orgy very like an Irish "wake." Like most imaginative peoples, the Montenegrins are extremely superstitious, and belief in the vampire, demons, and fairies is almost universal. Among the mountains they can converse fluently at aston-

ishing distances.

The Montenegrins take great pride in personal adorn-ent. The men wear a red waistcoat, embroidered with gold or black braid, over which a long plaid is sometimes thrown in cold weather; a red girdle, in the folds of which pistols and yataghans² are placed; loose dark-blue breeches and white stockings, which are generally covered with gaiters. The opanka, a raw-hide sandal, is worn instead of boots; patent leather long boots are sometimes worn by military officers, and a few of the wealthier class. The headdress is a small cap (kapa), black at the sides and red at the top.

The poorer mountaineers are often dressed in coarse

sacking, but all without exception carry arms.

The Montenegrins are great smokers, especially of cigarettes; in the districts which formerly belonged to Turkey the men, whose dignity never permits them to carry burdens, may be seen going to market with the chibûk, or long pipe, slung across their backs. The mother possesses little influence over her sons, who are trained from their earliest infancy to cultivate wariike pursuits and to despise the weaker sex. Betrothals often take place in early childhood. Young men who are attached to each other are accustomed to swear eternal brotherhood (pobratimstvo); the bond, which receives the sanction of the Church, is never dissolved.3 Marriages between Montenegrins and converted Turkish girls are a common source of blood-feuds.4

A SERBIAN FESTIVAL.—The most distinctive family celebration of the Serb race is the Slava, or celebration of the family saint. This purely Serbian custom is so deeply identified with the Serb race that it is said, "Where the Slava is, there is the Serb." The Slava has probably descended from ancestor-worship, and in pre-Christian times came to refe to a divinity who was the protector of each family or clan.

In pagan times each family and family group had its own family god (similar to the Roman custom). When the Serb families became Christians they baptized their ancient family god along with themselves into the Christian faith and gave him a name of a saint, generally that marking the day of their own baptism, and so he became the patron

¹Lee Meriwether, "Seeing Europe by Automobile" (1911).

saint of the family. His picture, painted or enamelled generally on a golden background in Byzantine style of flatly traced in wood, or even a lithograph, hangs on the wall of every Serbian house. Before it a small oil lamp is suspended, which is lighted on festival occasions.

The word "Slava" in all Slavonic tongues means "glory." It is used by some of them, by the Czechs for instance, as a word of hailing, like "Hurrah" in English. The word "Hosanna" in the Bible is translated "Slava."

On the day of the Slava the Serb house is open to all; a stranger may enter and receive the same welcome and hos-

pitality as that given to family or friend.

A feast is prepared, the important obligatory items of which are the "Kolatch" (cake) and the "Kolyivo." The Kolyivo evidently refers to an ancient rite of sacrifice, and is a plate of boiled white wheat, kneaded with nuts and honey or sugar, and iced or decorated in some way with melted or coloured sugars. It is really an offering for the souls of the dead.

The other consecrated dish, the Kolatch, is a large flat cake of wheat flour, the top marked with a cross dividing it into four quarters, the spaces containing letters indicating the device "Jesus Christ the Victor."

On the eve of the Slava a priest comes to the house, blesses the water, reads prayers for the dead, and asperges the house and its occupants with a myrtle branch dipped in the consecrated water. Messengers are sent through the village to give general invitation to the Slava or to the cere-

char, i. e., the man who is the head of the family celebrating the Slava, answers, "Yes, such guests as thou," and steps forward to embrace the visitor, who says, "May thy Slava be happy!" The host answers, "And thy soul, may it be happy before God!" The guest gives an apple or quince or other fruit to the master of the house and enters. This ceremony is repeated with each newcomer. When all are assembled the wife or daughter of the house enters, carrying a pitcher of water and a small basin and a finely embroidered towel. Coming to each in turn, she pours out a little water over the hands, letting it trickle down into the basin-they never dip their fingers into the basin. When she has gone the rounds, the guests all stand around the table, which does not contain the Kolatch or the Kolyivo, the Svetchar places a very large candle in the centre of the table and lights it. He then takes from the hands of some of the women-folks a small earthen vessel containing live charcoal, upon which he scatters incense. He first incenses the picture of the saint, then in turn each one of the guests. He says, "Brothers, let us pray," and unless there chances to be present some one possessing an especial gift of eloquent expression, they all stand with bowed heads praying in silence. After that the guests sit and begin supper. The host remains standing and serves his guests, pouring out the wine or plum brandy (slivo-vitza or rakia). After supper come toasts and speech-making.1

A SERBIAN BURIAL.—Before the body is placed in the coffin a fire is made in it with sulphur and gunpowder and wisps of tow. The same is done to the grave before burial, and at sunset of the funeral day women once more go to the closed tomb and burn upon it the same elements.

When the body is lowered, coins are thrown in-recalling the objects in bronze found in the cinerary urns of the Veneds. Each one present casts in a handful of earth, begging the soul which is starting on its journey to carry messages to those among the loved ones or friends who have passed on into the world beyond. These messages are quite simple and natural, words of love and greeting, such as would be confided to some one of the living who might be setting out to a distant part of the country. Another custom of apparently pagan origin is that of giving "feasts for the soul of the departed."

^aYATAGHAN, a short, curved, Mohammedan sword, without a guard or crosspiece. ^aThis custom prevails also in Serbia, Bulgaria, and Roumania.—C. O. S. M. ⁴"Encyclopædia Britannica," 11th edition, vol. 18, p. 769.

¹Prince and Princess Lazarovich-Hrebelianovich, "The Servian People" (1910).

Bulgarian Marriages.—In the villages the boys marry between fifteen and eighteen, the girls between eighteen and twenty. A husband is nearly always younger than his wife, in order that the wife may be the better able to help her husband in field labour when they start housekeeping.

It would be false delicacy to omit all reference to the primitive custom of prestana. If Jack and Jill have made up their minds, they quit the village, or rather Jack makes a pretence of carrying off Jill by force from her home, and on their return they are married by the priest. Such a thing as desertion by the man is absolutely unknown, and a man who did not go before the priest on his return would be shot before sunset. His life would be forfeit both to the law and the public opinion of his country. If parents arrange a marriage that does not recommend itself to either of the parties chiefly interested, the objecting party has only to act in the approved fashion of prestana for the parents to give their immediate consent to his or her marriage with some one else. Even when the son and daughter do approve of the marriage arranged for them, they generally consummate it in the national fashion. This ancient custom of carrying off the woman he wishes to marry has a firm hold. on the Bulgarian.1

A CURIOUS CUSTOM.—The following perversion of the established order of things is of interest.

The Bulgarians shake their heads for "yes," and nod for This gives rise to many curious mistakes in the intercourse between Bulgarians and Europeans. Many times have I offered a drink to a man, who shook his head, and I desisted; all the time he meant "yes," and was longing to have that drink. The shake ("yes") is accompanied by a curious shaping of the mouth into a semi-circle which is very grotesque, and quite inimitable, and particularly ungraceful in young girls with pretty faces. The nod ("no") is accompanied by an ugly raising of the eyebrows.2

Rose Culture.—Rose growing is a popular industry in Bulgaria, as well as the manufacture of attar of roses, the basis of so many perfumes.

The peasants are employed to pick the roses; they then take them to their cottages, and squeeze the juice out in rough wooden presses.

A secondary industry is the making of rose-petal jam, which is as delicious as it sounds if eaten in moderation; for, difficult though it is to imagine, one gets soon tired of

both the taste and the scent of roses.

The town of Kazanlik is the centre of the rose gardens, and the visitor to this district does not easily forget his first impression of the sunny southern slopes of the Balkans, if he should happen to be there when these are covered, as far as the eye can reach, with all the most glorious roses in full bloom, their fragrance being wafted to him on every breeze.2

ROUMANIAN TRAITS.—Two dissimilar types are noticeable among the Roumanians. One is fair-haired, florid, and blue-eyed; the other, more frequent among the Carpathians, is dark, resembling the southern Italians. Both alike are hardy, though rarely tall; both, when of the peasant class, are frugal and inured to toil amid the rigours of their native climate.

Proud of their race and country, they acquired with their independence an ardent sense of nationality; and they look forward to the day which will reunite them to their kinsmen in Transylvania and Bessarabia. They have been taught, originally in the interests of Transylvanian Roman Catholicism, to regard themselves as true descendants of

¹J. G. C. Mînchin, "The Growth of Freedom in the Balkap Peninsula" (1886). ²W. V. Herbert, "By-Paths in the Balkans" (1906).

the Romans. The peasants retain their distinctive dress, long discarded, except on festivals and at court, by the wealthier classes. Men wear a long linen tunic, leather belt, white woollen trousers and leather gaiters, above Turkish slippers or sandals. The lowlanders' head-dress is generally a high cylindrical cap of rough cloth or felt, while the mountaineers prefer a small round straw hat. Sundays and holidays bring out a sleeveless jacket, embroidered in red and gold; and both sexes wear sheepskins in cold weather. The linen dresses of women are fastened by a long sash or girdle, wound many times round the waist; the holiday attire being a white gown covered with embroideries, one or more brightly coloured aprons and necklaces of beads or coins. The standard of comfort is lowest along the Danube and in parts of the Dobrudja. As the land becomes higher, the dwellings improve; but, despite the presence of a doctor in each commune, disease is everywhere rife. Many villages are wholly built of timber and thatch, especially amongst the Carpathians, the floors being frequently raised on piles, several feet above the ground. The inner walls are often hung with hand-woven tapestries, which harmonize well with the smoke-blackened rafters, the primitive loom, and the huge Dutch stove characteristic of a prosperous Roumanian farm.

Many pagan beliefs linger on in the country, where vampires, witches, and the evil eye are dreaded by all. The peasants reassure themselves by the use of charms and spells, and by a strict observance of the forms which their creed prescribes. A cross guards every well or spring; every home has its ikons or sacred pictures. Church festivals and fasts are kept with equal care.

The ceremonies which accompany a wedding preserve the tradition of marriage by capture; a peasant bride must enter her new home carrying bread and salt, and in parts of Wallachia a flower is painted on the outer wall of cottages Young men in which there is a girl old enough to marry. swear eternal brotherhood; girls, eternal sisterhood; and the Church ratifies their choice in a service at which the feet of the pair are chained together. This relationship is morally and legally regarded as not less binding than kinship by birth. The dead are borne to the grave with uncovered faces, and a Roumanian funeral is a scene of much barbaric display. All classes delight in music and dancing.1

THE JEWS IN ROUMANIA.—The disabilities under which the Jews live in Roumania are typical of the mediæval conditions that obtained in almost every part of Europe up to a century ago, and, in the case of Russia, till the overthrow of the monarchy in 1917.

In Roumania a Jew can neither vote nor hold office in the civil service. He is excluded from the professions; he is not permitted, for example, to become a physician or even open a pharmacy; he is not permitted to live in the rural districts; he may neither own land outside of the town nor work as an agricultural labourer. In the mills and factories not more than 25 per cent. of the employees may be Jews. Although they are practically restricted to business enterprises, Jews may not become members of chambers of commerce. Jews are bound to serve in the army; they pay heavier taxes, proportionately, than other portions of the community; but they are classed under the laws as "aliens not subject to alien protection."2

ATHENS.—Three cities the world honours as the sources of religion, the law, and the "fair humanities" that have made us what we are: Jerusalem, the mother of Christianity; Rome, the stern mistress who taught the world how to rule states and to respect the law; and Athens, in whose pure atmosphere the love of knowledge and the love of beauty first gave a perfect form to art, philosophy, and literature.

The traveller, approaching Athens by sea, lands at the port of *Piræus*, a busy, thriving town. The railway follows

^{1&}quot;Encyclopædia Britannica," 11th edition, vol. 23, p. 829. Booker T. Washington, "The Man Farthest Down

the line of the south or "Middle Long Wall," which in ancient days formed one of the defences of the capital. In classic times thronging crowds of labourers, merchants, and travellers filled the space between the rows of closely-crowded dwellings which on either side lined these old walls. Now there are not half a dozen houses between Athens and the Piræus.

Driving east up Hermes Street, the main thoroughfare of the city, we pass the Temple of Theseus, best preserved of Grecian temples; and at the corner of Æolus Street, which crosses Hermes Street at right angles, we catch a glimpse of the old octagonal Tower of the Winds, close under the northern slope of the Acropolis. The ruins on that most wonderful rock drew our eyes irresistibly. It was St. George's Day, and the people were keeping the festival of "George, King of

the Greeks.

The crowd wore for the most part the dress and the quick, restless aspect of an English crowd. Here and there you saw an Albanian costume, adopted by the Greeks as the national dress for lack of any other of their own. Blue, close-fitting breeches; white or blue stockings or gaiters; low shoes of red leather, with pointed, tasselled, upturned toes, and no heels; a short black jacket richly embroidered, worn over a red waistcoat; a white embroidered shirt with open sleeves; coloured garters at the knee; and a red girdle supporting an immense leathern pouch, from which protrude pistols and a knife or two; on the head a pointed red flannel cap, like a prolonged Turkish fez falling over upon the side, and ending in a silk tassel.

The most remarkable feature of the costume remains to be described. From 30 to 60 yards of white linen, about 30 inches wide, are gathered in a thickly-plaited skirt, which is starched and worn over the breeches. This is the fustanella; and where this habit is kept carefully clean (which is seldom the case with the class of citizens who most affect

it) it is strikingly picturesque.

The architecture in the better parts of the city is not unlike the modern part of any European town. In 1832, when Dr. Hill, the venerable American missionary, took up his abode there, he was obliged to live for some months in a ruined tower, as there was literally not a house standing in Athens.

After the Acropolis and Pnyx [public meeting-place], no place at Athens has a deeper charm than the Academy of Plato. We walked one beautiful morning two miles northwest to the olive groves that still mark the place. Then through groves of pomegranates, with their great, solid, deep red blossoms, and on through vineyards where the blood-red of the poppies contrasts with the tender green of the low-trimmed vines. . . .

To the southeast, above the clustering roofs of the modern city, rises the steep, altar-like rock of the Acropolis, still crowned with ruins. Here, in the midst of the grand scenery, in these very olive groves, groups of earnest thinkers talked to Plato, and rendered these academic shades so illustrious, that in all lands the lovers of wisdom and art have been fain to borrow from their groves the name "Academy."1

A REMODELLED CITY.—When Athens was made the seat of government in 1833, it had only a scant population dwelling among a scene of ruins. To-day it numbers more than 200,000. In 1914, before the outbreak of the Great War, an ambitious scheme was formulated which is expected to convert Athens into one of the great world centres. Thomas H. Mawson, the English city-planner, was commissioned to carry out this stupendous task. The value of the architectural remains will be enhanced by the removal of modern slums and the creation of harmonious surroundings.

At the time I was commissioned to prepare these plans, says Professor Mawson, Greece was undergoing a rebirth or renaissance, having emerged through centuries of subjection into a prosperous and ambitious kingdom, which was ever increasing its power and influence. This renewed vitality was naturally followed by an enormous increase in the number of visitors made up of scholars and tourists attracted from every part of the habitable globe, but principally from England and the United States. Venizelos realized that this traffic provided a source of great potential wealth to the country and in this view the Royal family, government, and municipality were thoroughly united. Therefore, it is proposed, first of all to clear the entire area included in the site of ancient Athens of every objectionable or defiling erection. . . . The next important feature of the scheme is the rearrangement of the railroad system of the city.

Athens desires to increase its industrial occupations, which at present are largely the working of marble and the manufacture of woollen goods. At present a number of workshops and factories are located in various parts of the city, much to its disfigurement. All of these are to be removed to more economic positions arranged along each side of the railroad, the power to be obtained from one power station. All of the factories will conform to one definite scheme of plan and elevation so as not to injure the æsthetic effect of the city. In close relation with these workshops is to be laid out a large area of land for the housing of the working people on the most hygienic and convenient scale.

English Language in Athens.—French, of course, is the prevailing foreign tongue, with English pressing it hard for first place. English, indeed, is the family language of the palaces in Athens.

The Royal Family in my day was made up of many nationalities. The King was a Dane; his Queen a Russian; the Crown Princess a sister of the Kaiser; the Princess George of the Bonaparte family; the Princess Nicholas a Russian Grand Duchess; the Princess Andrew a Battenburger; and since they all had English nurses and governesses, and since it was necessary to find some common, linguistic ground for the royal group, English was the prevailing tongue in the royal households; and it is spoken generally at the ministries, in the hotels, and in the larger shops.

Throughout the country, too—and indeed throughout the entire Balkan region—English is much heard, because of the great numbers of Greeks who have returned home from America; and few travellers in the Peloponnesus will fail to recall at almost every railroad station the eager face thrust in at the carriage window and quivering with the

demand, "You fellers from America?"

In this recurring question scholars find a persistence of that spirit of Hellenic curiosity which greeted the traveller in the Odyssey with, "Who of men and whence art thou; where are thy city and thy parents?"

THE NOMAD SHEPHERDS OF GREECE.—The wandering shepherds of modern Greece, known by the generic name of Vlachs, form a link with a bygone age. With their brown hooded cloaks, and their crooks across their shoulders, they march with their flocks from one pasture-land to another.

Their days are spent entirely in the open air, and in wet weather or dry they sleep with their flocks, enveloped in their rough frieze cloaks, on the mountain side. In the summer they explore the higher altitudes, and make their halting-place in the lambing season under some dark valonia's2 A blanket stretched over crossed sticks serves as a shelter from the sun, while around lie the churns, milk-pails, and cheese-pans, their only household goods. In the winter they come down to the plains and build themselves a frail hut of twigs or rushes, fencing in some sheltered angle of rock with a rude shelter of brushwood to protect their flocks from the wind and weather—the winter quarters (χειμερία) and the fold (μάνδρι). The women share their free and roving life, but more often take refuge during winter in the villages.

Their diet is of the simplest, being almost exclusively confined to bread in the lambing season, with cheese and

The tall evergreen valonia oak (Quercus ægilops).

1E. H. Gates.

¹G. H. Moses in the National Geographic Magazine (Oct., 1915).

curds when the milk can be spared for them, and a little wine and tobacco are their only luxuries. Illness is unknown amongst them, and they generally live to a very great age. Gigantic dogs with shaggy coats follow them over the mountains, alert to the master's voice, and trembling at his least reproof, but ferociously savage to all the world besides. The eyes of these hillmen are keen as the hawk's, and their voices reach, without effort, from ridge to distant ridge; the goats understand their uncouth cries, and come in response to the call from heights a mile away.1

SALONIKI.—Look at Saloniki on the map, and it will not be surprising to learn that the city has long been known to men and that its possession has often been disputed. Though not so old as its two great neighbours, Athens and Constantinople, Saloniki nevertheless has an ancient past. The place was originally founded as an Ionian colony, and was known as Therme, or Therma, from the hot springs which still exist. It fell into the hands of the Persians in 512 B. C. The present city was founded about 315 B. C. by king Cassander of Macedon, and named Thessalonica after his wife Thessalonike, a sister of Alexander the Great.

Under the Romans, Saloniki grew greatly in importance. Made a free city, the capital of the surrounding region, it became the home of many Roman colonists, and not a few famous names associate themselves with the town. Cicero lived there for a time in exile. St. Paul was another temporary resident, whose epistles to the Thessalonians we still

The emperor Nero decorated the city with a colonnade, a few of whose battered caryatides were visible there until a few years ago, under the picturesque name of las encantadas—the Enchanted Women. They are now in the Louvre.

Theodosius the Great also lived there in 380, in order

to keep his eye on the Goths. After his retirement to Milan, 10,000 of the Thessalonians were butchered in the circus, in punishment for insulting the emperor's lieutenant. St. Ambrose, Bishop of Milan, thundered from the pulpit against the imperial murderer, and Theodosius eventually made a most humiliating public penance.

During the Byzantine period Saioniki became the second city of the empire. Its situation made it the commercial capital of the Balkan Peninsula, and it rivalled Constantinople as a port of traffic between eastern Europe and Alexandria. But its wealth and its comparative remoteness also made it a frequent object of attack. Avars, Goths, and Huns came time and again to its gates. The Saracens captured and sacked it in 904. The Normans descended upon it in 1185.

The ensuing two hundred years were the most unhappy in the troubled history of the Thessalonians, who were fought over and bandied about by Greeks, Bulgars, Serbs, Catalans,

Venetians, and Turks.

The latter first appeared on the scene in 1380. They did not definitely take possession, however, till 1430. Then Sultan Mourad II, father of the conqueror of Constantinople, captured the town from the Venetians, gave it over to sack and massacre, carried off seven thousand of the inhabitants into slavery, and changed many of the churches into mosques or tore them down for use in his own constructions. Some of the marbles of Saloniki were carried as far away as Adrianople. For nearly 500 years the Turks remained in undisturbed possession.2

At the end of the Balkan War, the treaty of Bucharest (1913) awarded Saloniki to Greece.

THE OTTOMAN EMPIRE

RISE OF THE OTTOMAN EMPIRE.—Turkey, the "sick man of Europe," has been for some time in the fierce glare of world publicity; and so long as the Turk is in possession of Constantinople—the gateway to the East—he controls the destiny and peace of Europe. Through that gateway lie the Teuton hopes of Oriental and world dominion. A glance at the rise of this waning power will give us a better understanding of present conditions.

The Ottoman Empire is not a national state. It has grown by the domination of a military power over what might have been nations, or parts of nations, if Ottoman militarism had not cut them short. A writer in The Round Table briefly outlines the growth of the Ottoman domina-

This Ottoman Power, which has overshadowed so many lands and peoples in Asia and Europe, sprang from small beginnings. Its founder was chief of a little troop of Turkish nomads, who in the thirteenth century wandered into Asia Minor from Central Asia. The Turkish Sultans already established in the country let the wanderer carve himself out a camping-place on their northwestern marches—the hill country behind the Asia-tic chore of the Sca of Margara leaking down property. shores of the Sea of Marmora, looking down upon what was then a sek coast belonging to the Byzantine Empire. The founder's son turned

tic shores of the Sea of Marmora, looking down upon what was then a Greek coast belonging to the Byzantine Empire. The founder's son turned the camping-ground into a state, and, taking the name of Osman on his conversion from paganism to Islam, bequeathed it to his successors.

The Osmanlis are those who have carried on what Osman began—and they have been faithful to his ideas. In less than three centuries they added to Osman's few square miles of hill country, till their territory stretched from Hungary and Algiers and the Crimea to the Red Sea and the Persian Gulf, and they won the whole of it by military technique. The Osmanlis expanded because they had better drill, better artillery, better military roads than the peoples they overthrew. . . . The instinct for soldiering is the Osmanlis' one and inalienable characteristic.

Policy Toward Conquered Peoples.—No other military state, not even Prussia, has ever so remorselessly exploited its human material. The Osmanlis' system was Spartan.

They did not take a mere toll of years from grown men's lives, but men's

They did not take a mere toll of years from grown men's lives, but men's whole lives from infancy—a tribute of so many children from each subject Christian family, every so many years. These children were separated forever from their families at the earliest possible age, educated in a military school as Moslems, and drafted into a standing army, fanatically devoted to their corps, the Osmanli Sultan, and Islam, and with no other ties in the world. The Janissaries (or "New Model Army"—as, indeed, they were) made the Ottoman conquests, and each fresh people they brought under the Ottoman domination became a fresh recruiting ground.

The Ottoman Empire spread with a disastrous momentum, engulfing free peoples and destroying well-grown states—the Byzantine Empire, which had preserved at Constantinople the heritage of ancient Greek civilization; the young, vigorous kingdoms of Bulgaria, Serbia, Bosnia, Hungary; the Roumanian principalities of Wallachia and Moldavia; the Albanian tribesmen; the Greek and French and Italian lordships in the Ægean Islands and Peloponnesus. All these were overthrown by the Osmanlis in Europe, and in Asia their conquests were as thorough and as wide. They conquered impartially, not only Christians but Moslems, not only Moslems but Turks.

Their hand was against every man's, and none whom they conquered became reconciled to their rule.

Policy of Neglect.—The policy of neglect introduced by Sultan Mohammed II, who conquered Constantinople in 1453, regarded the subject peoples simply as raw material for the production of Ottoman requirements-tribute in children and tribute in kind for the Sultan's army, and peasant labour for the estates of the "beys" or feudal retainers whom the Sultans planted on the richest part of the conquered soil. Beyond these servitudes the Ottoman Empire had no use for its subject peoples. They were considered only as rayah (cattle).

FORMATION OF "MILLETS."-Provided they remained docile, it was to the Osmanlis' interest that they should shepherd themselves, and Mohammed II encouraged the formation of "millets," or subject national communities, within the Ottoman state.

The "millets" (the most important of which were the Armenian and the Greek) were ostensibly ecclesiastical corporations. At the head of each there was a Patriarch and Council resident in Constantinople, who exercised authority over their nationality through a hierarchy of metropolitans, bishops, and village priests. . . . The Patriarchs of the "millets" were more than religious primates. The administration of civil law among their nationals was largely left in their hands, and their jurisdiction was supported by the force of the Ottoman state. It has been said of this phase of Ottoman domination that countries and peoples prospered under it in proportion to their neglect by the Ottoman government.

¹R. Rodd, "The Customs and Lore of Modern Greece" (1892). ²H. B. Dwight in the National Geographic Magazine (Sept., 1916).

DECLINE OF OTTOMAN POWER.—The Ottoman military machine had a limited span of vitality. The invincible Janissaries sank first into a hereditary militia, then into a privileged shopkeeping class. Their privileges were for their sons, and new Christian recruits became unwelcome interlopers. In the seventeenth century the tribute of children was abandoned, through the jealousy of the Janissaries themselves, not through the humanitarianism of the Ottoman government. The military basis of Ottoman domination was sapped, and during the next two centuries the Ottoman territory shrank almost as rapidly as it had expanded before. As the Osmanlis were beaten in war, their subject peoples broke away-some to find a better life under other states, some to found new national states of their own, but all outside the Ottoman dominion and only at the expense of its territorial integrity.

Policy of Attrition.—Faced by the fact that, as Osmanli rule grew weaker, one subject people after another was awaking to a national life of its own, Abdul-Hamid decided to exploit these national movements within his empire by turning them against one another. Abdul-Hamid reigned from 1876 to 1908 when he was deposed. The Balkan Wars of 1912-1913 -first of the Balkan League against the Ottoman Empire, and then of the Confederates against each other-were the direct fruit of Abdul-Hamid's policy.

The Ottoman government emerged from the Balkan War with a territory reduced to part of Thrace, Constantinople, the Straits, and the provinces in Asia, and a population of between 20 and 25 millions (statistics are inexact). In this population there were about 8,000,000 Turks, nearly all living north of a line drawn from Alexandretta to Van; 7,000,000 Arabs (Moslem or Christian) to the south of that line; 2,000,000 Armenians and 2,000,000 Greeks, scattered over the northern half of the empire, the Greeks mostly to the west and the Armenians to the east; and from two to three million semi-independent hillmen.

Policy of Extermination.—The Young Turkish Party, which overthrew Abdul-Hamid in 1908, has carried on a systematic policy of extermination. The Young Turkish motto is "Ottomanization," which means that Turkish habits, education, religion, but above all language, are to be imposed upon every people within the Ottoman frontiers, and that those who cannot be coerced are to be eliminated.

In 1913 the population of Thrace, the only European province to which Turkey could lay any claim, was predominantly Greek, with a Turkish element round Adrianople and some Bulgarians in the mountains toward the northeast. A year later only Turks were left; Greeks and Bulgarians had been driven out across the frontier, stripped of their property and their lands. At the same time the Young Turks began driving out the Greeks from the western coastlands of Asia Minor. They meant to "solve" their Greek problem altogether, and the kingdom of Greece was on the verge of a second war with the Ottoman Empire on this account, when the European War supervened.

ARMENIAN ATROCITIES.—The Armenians are Christians, and are an enlightened and industrious people. The massacres of Armenians was the greatest blot on Abdul-Hamid's rule. But whereas Abdul-Hamid butchered in order to weaken the Armenian nation, the Young Turks set about its complete elimination.

The extermination of the 2,000,000 Armenians is already an accomplished fact. About two-thirds of them were "deported"—men, women, and children—hundreds of miles, for weeks on end, over roadless mountains, to the semi-tropical swamps and deserts on the empire's southern fringes. About half the exiles reached their destinations, and have been dying there since of starvation, exposure, and disease. The other half died of exhaustion on the way, or were murdered by the gendarmes who escorted them and by organized bands of brigands and Kurds. A third of the nation may still be alive—the Armenians in Constantinople and Smyrna were mostly spared; a certain number escaped by conversion to Islam (though this, for spared; a certain number escaped by conversion to Islam (though this, for

women and girls, involved entrance into a Moslem's harem); about 200,000 escaped to Russia and Egypt. These 200,000 refugees—10 per cent of the Armenians living under Ottoman domination in 1914—are the only Ottoman Armenians whose preservation is assured.

SANCTA SOPHIA.—The first questions every stranger asks as his steamer rounds Seraglio Point from the Marmora, or descends the Bosphorus from the Black Sea, are: "Where is Sancta Sophia?" "Which is Sancta Sophia?"

To catch the earliest possible glimpse of its outline the eye of every traveller is strained. Myths and legends told concerning it are devoured with eager interest. With rapt attention its walls and pillars and arches and mosaics are scanned. In after years, in the quiet of the stranger's home, it is the colossal form of Sancta Sophia which stands out most

distinct on the canvas of Constantinople memories.

Nor is it strange. To many Constantinople means nothing but Sancta Sophia. To thousands who have never even heard of the city's wonderful walls, and who have never made a mind-picture of the Bosphorus, the name of its venerable cathedral is a familiar sound. Even to those who know it least it is the synonym of what is grandest, most glorious, most historic, and most sacred in the achievements of Christian architecture.

In one respect Sancta Sophia is unlike every other anti-quarian monument of Constantinople. Those other antiquities of the city belong wholly to the past, and have no

Sancta Sophia belongs to the past as well. In 537, a whole generation before the birth of Mohammed the Prophet, its great dome swept heavenward as skylike as it does today. Yet that church, we may believe, has a future as glor-

ious as, perhaps more glorious than, its past. . . . The Church of Sancta Sophia rises on the crest and western side of the first hill. It stands just outside the limits of ancient Byzantium. To-day its confused and shapeless pile, bounded by four massive minarets, encased in gigantic buttresses, made grotesque by wide painted stripes of alternate yellow and white, fills the horizon of the eye from every direction. Like Saint Peter's at Rome, it traces its history by an unbroken chain back to Constantine himself.1

SYNOPSIS OF THE BALKAN STATES

(See Map, p. 11)

MONTENEGRO

The kingdom of Montenegro lies between Northern Albania on the south and Herzegovina on the north. The surface forms a series of elevated south and Herzegovina on the north. In surface forms a series of elevated ridges with lofty mountain peaks, many of which are covered with forests. The Montenegrins belong to the Serbian branch of the Slav race, and are members of the Greek Church. A large portion of the country is uncultivable, consisting of forest and mountain pasture, and bare limestone. Large herds of cattle are reared and some small crops are grown. The first railway in the country was opened in December, 1908. It runs from Anti-

railway in the country was opened in December, 1908. It runs from Antivari to the lake of Skutari and is only 21 miles in length.

CLIMATE.—The climate is severe in the higher regions, and comparatively mild in the valleys (mean annual temp. about 58°F.). During the winter the capital is almost inaccessible. See Climate Map of Europe, pp. 24, 25.

CHIEF PRODUCTS.—Maize, potatoes, sumac, castradina (smoked mutton), hides, and tobacco. The only manufactures are coarse woollens.

CAPITAL.—Cetinje. Population 5,300.

PORTS.—Antivari and Dulcigno.

GOVERNMENT.—Montenegro was a principality until 1910, when it was proclaimed a kingdom. The legislative authority is vested in a Council

proclaimed a kingdom. The legislative authority is vested in a Council of State and a Skupshtina, consisting of 76 members elected for four years.

The kingdom of Serbia is separated from Hungary by the Danube and Save, and is bounded on the east by Bulgaria, on the west by Albania and Montenegro, and on the south by Greece. The country is mountainous, containing the remains of formerly extensive forests and uncultivated heaths.

containing the remains of formerly extensive forests and uncultivated heaths. The state religion is Greek Orthodox.

CLIMATE.—The climate is "continental." In Belgrade the mean temperature in January is 33.2°F., and in July 67°F.; the winters among the mountains are very severe. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—Agriculture, which is carried on in a somewhat primitive fashion, is practically the only industry. Almost every peasant cultivates his own freehold, varying from ten to thirty acres. The principal crops are maize for home consumption, and wheat for export; flax, hemp, and tobacco are also grown, and silk culture is carried on to a limited extent. Before the appearance of Phylloxera in 1882 wine was exported to

¹E. A. Grosvenor, "Constantinople" (1895).

France and Switzerland, but in 1882-1895 thousands of acres of vines were destroyed. Phylloxera was checked by importing American vines and establishing schools of viticulture.

The raising of live stock, and particularly swine, forms the chief source of wealth for the Serbian peasants. There are government monopolies of tobacco, salt, and petroleum.

CHIEF TOWNS AND INDUSTRIES OF SERBIA

TOWN	POP. IN THOUSANDS	DEPARTMENT	INDUSTRIES
Belgrade* Monastir* Nish of Nissa* Novibazar* Prizren* Uskup*	90 60 25 13 21 47	Belgrade Bitolj Nish Novibazar Prizten Skoplye	Brewing, iron-founding, cloth, boots, leather, matches, pottery. Flour, cloth. Iron-founding. Agriculture. Fire-arms, pottery, glass. Dyeing, weaving, tanning, flour, wine.

*Capital of department.

Capital.—Belgrade, on the Danube. Population 90,890.

Carpet weaving is one of the oldest industries in Serbia; Pirot, in southeastern Serbia, is the centre of this industry. The carpets are made of pure wool dyed with natural colours, the process being transmitted from

father to son.
CHIEF IMPORTS.—Cottons, hides, machinery, common salt, iron bars,

CHIEF IMPORTS.—Cottons, hides, machinery, common salt, iron bars, paper, silk.

CHIEF EXPORTS.—Prunes, wheat, maize, pigs, cattle, horses, raw hides. The bulk of the trade is with Austria-Hungary.

COMMUNICATIONS.—There are two main railway lines, Belgrade-Nish-Vranja, and Nish-Caribrod; also several minor branches, making a total of about 1,000 miles.

of about 1,000 miles.

There are about 3,000 miles of telegraph lines (6,500 miles of wire), and over 500 miles of telephone lines (5,000 miles of wire).

GOVERNMENT.—Serbia is a limited monarchy. There is only one chamber, the National Assembly (Narodna Skupshtina), consisting of 166 deputies elected by the people. The deputies receive a salary of 15 dinars (\$3) a day and travelling expenses. The executive power is vested in the king and the State Council, partly appointed by the king and partly by the Assembly. Assembly.

BULGARIA

The kingdom of Bulgaria is bounded on the north by Roumania, on the west by Serbia and Greece, on the east by the Black Sea, and on the south by the Turkish province of Adrianople and the Ægean Sea. The prevailing religion is that of the Orthodox Greek Church.

CLIMATE.—The climate is "continental." The mean temperature of Sofia in January is 26.6°F., and in July 71.6°F. See Climate Map of Europe,

Sofia in January is 26.6°F., and in July 71.6°F. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—The soil yields grain (especially maize and wheat), tobacco, wine, fruit; while the horses, cattle, and sheep of Bulgaria are excellent. Agriculture and stock-farming divide the attention of the inhabitants almost equally. Rose culture too is populat.

The mineral resources are considerable, although, with the exception of coal, they are largely unexploited. They include gold (in small quantities), silver, graphite, pyrite, galena, ochre, manganese, gypsum, etc. Thermal springs, chiefly sulphureous, exist in many localities along the southern slope of the Balkans. Many of these are still frequented as in Roman times, owing to their therapeutic properties.

MANUFACTURES.—The manufacturing industry is still in its infancy, being represented chiefly by domestic and retail industries. Knives, carpets, woollen ribands (gaitans), and goats'-hair and cotton stuffs are produced.

CHIEF TOWNS AND INDUSTRIES OF BULGARIA

TOWN	POP. IN THOUSANOS	DEPARTMENT	INDUSTRIES
PHILIPPOPOLIS* PLEVNA* RUSTCHUK*	47 23 36	Philippopolis Plevna Rustchuk	Rice, attar of roses, cocoons. Cattle, wine. Tobacco, cigarettes, soap, breweries, dye- works, tanneries, brick and tile works,
Shumla*	22	Shumla	Grain, wine, silk, cloth, copper and tin-
SLIVNO OF SLIVEN SOFIA*	50 102	Slivno Sofia	Wares. Homespuns, wine, silk. Breweries, tanneries, sugar, tobacco, cloth, silk.
VARNA* *	41	Varna	Grain, skins, cloth.

*Capital of department.

CAPITAL.—Sofia. Population 102,812.
CHIEF PORTS.—Varna and Bourgas, on the Black Sea; Rustchuk, Sistor, and Vidin on the Danube.

COMMERCE.—The foreign trade follows three main routes—the Danube, the mainland railway, and the Black Sea. The chief trade is with Austria-Hungary and Germany. Up to 1914 considerable trade was done with the United Kingdom, France, and Italy.

CHIEF IMPORTS.—Textiles, metal goods and machinery, colonial wares, backer be willied to the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color

leather, building materials, petroleum, and other oils, paper, salt fish, rice,

and coal.

CHIEF EXPORTS.—Cereals, live stock, essence of roses, woollens, skins, cheese, eggs, timber, silk cocoons, and tobacco.

Communications.—There are about 1,600 miles of railway belonging to the state; 4,000 miles of telegraph, with 12,000 miles of wire; and 1,600 miles of telephone line, with 12,000 miles of wire.

Government.—The executive power is vested in the king, assisted by a council of ministers, and the legislative power in a single chamber, the Sobranje; or National Assembly, elected for five years.

ROUMANIA

The kingdom of Roumania is bounded on the north by Russia, on the east by Russia and the Black Sea, on the south by Bulgaria, and on the west by Serbia (Danube) and Austria-Hungary (Carpathians). The prevailing religion is that of the Orthodox Greek Church. Many Roumanians are to be found in neighbouring countries, especially in Transylvania and Hungary.

nans are to be found in neighbouring countries, especially and Hungary.

CLIMATE.—The climate is extreme, chiefly because the country is exposed toward the northeast. The heat in summer is often 100°F.; in winter the mercury frequently reaches —4°F., so that the rivers are often thickly covered with ice for weeks at a time. At Bukharest the mean temperature in January is 38.3°F., and in July 68°F. See Climate Map of Europe, pp.

In January is 38.3 °F., and in July 08°F. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—The soil is among the richest in Europe, and but for the summer droughts would be also the most productive. Cereals, wines, and timber are the chief products. More than 40 per cent of the agricultural land is in small holdings of 25 acres or less, held by over one million peasant proprietors. The riches of the country consist mainly in its cattle and sheep. Minerals are said to be abundant, but only salt and petroleum are worked. The latter is the country's chief industry, and about \$75,000,000 of capital, mostly foreign, is invested in it.

CHIEF TOWNS AND INDUSTRIES OF ROUMANIA

TOWN	POP. IN THOUSANDS	DEPARTMENT	INDUSTRIES
Botosani*		Botosani	Starch, flour,
Braila*	33 66	Braila	
			Grain, timber.
BUKHAREST*	309	lifov	Petroleum, distilleries, machinery, wire,
			nails, cement, soap, candles, paste, starch, paper, buttons, textiles, leather.
Buzau	30	Buzau	Petroleum, timber, grain.
CONSTANTZA OF	30	DULLU	retroteum, emiber, gram.
Kustendji*	28	Constantza	Cools was lower (Plant Comment)
			Grain, petroleum. (Black Sea port.)
Crajova*	52	Dolj	Rope, carriages, tanneries.
GALATZ*	73	Covurlui	Saw-mills, paste, flour, chemicals, ropes,
JASSY*	76	Jassy	Petrnleum, salt, metals, timber, cereals,
	/0		wine, leather.
PLOYESTI*	57	Prahova	Cardboard, ropes, tanneries, oil.

*Capital of department.

CAPITAL.—Bukharest. Population 308,987.
COMMERCE.—Up to 1914 the chief trade was carried on with Germany, Austria-Hungary, Italy, Belgium, France, and Turkey.
CHIEF IMPORTS.—Principally the manufactured goods of western Europe,

including metals, textiles, and machinery.

CHIEF EXPORTS.—Wheat, barley, maize, petroleum, beans and oil seeds, wood, cattle, hides, and skins.

COMMUNICATIONS.—There are about 2,400 miles of railway, practically all of which belongs to the state; 5,600 miles of telegraph lines, with 15,700 miles of wire; and 25,000 miles of telephone lines, with 70,000 miles of wire. Government.—Roumania is a limited monarchy. The legislature consists of a Senate of 120 members, and a Chamber of 183 members. Mem-

bers of both houses are paid \$4 a day during the sessions.

GREECE

GREECE

Greece is a maritime kingdom in the southeast of Europe. As a result of the Balkan Wars of 1912-1913 its area was increased by the addition of portions of Macedonia, Albania, and Thrace, and by the capture of many of the Turkish islands. The country is composed of a continental portion (the southern part of the Balkan Peninsula), and of the islands in the Agean, Mediterranean, and Ionian seas. The surface is nearly all mountainous; the coasts are elevated, irregular, and deeply indented.

Islands.—The Greek islands include the Ionian Islands (Corfu, Leucas, Ithaca, Cephalonia, and Zante), the Cyclades, Euwa, Crete, and the greater number of the Turkish Archipelago (Lemnos, Mytilene or Lesbos, Chios, etc.). Crete, or Candia, has an area of 2.950 square miles, with a population of 270,000 Greek Christians and 40,000 Mohammedans. The staple product of Crete is olive oil, chiefly exported as a lubricant. In mediæval times wine was largely produced in the island; and until recently much common black wine was shipped to France for conversion into claret. See p. 284.

CLIMATE.—The coasts and islands have a uniform oceanic climate, with winter rains, closely resembling the climate of Spain and Italy; but the isolated mountain gorges and valleys of the interior suffer from great extremes of heat and cold. At Athens the mean temperature in January is 47.5°F., and in July 78.3°F. See Climate Map of Europe, pp. 24, 25.

NATURAL PRODUCTIONS.—Agriculture is the chief industry, carried on principally by peasant proprietors. Wheat and maize are grown on the plains of Thessaly. Grapes, olives, and other southern fruits, as well as cotton and tobacco, are produced. Currants (raisins of Corinth) are the dried fruits of a small vine which grows luxuriantly in Greece and the Grecian islands. Large flocks of sheep and goats are kept, but there are few cattle or pigs. Minerals, especially iron, lead, silver, and zinc, are worked to some extent. some extent.

CHIEF CITIES AND INDUSTRIES OF GREECE

СІТУ	POP. IN THOUSANDS	NAME OF PROVINCE	PRINCIPAL INDUSTRIES
Athens*	167	Attica	Marble, woollens.
Corfu*	27	Corfu	Wines, olives,
KAVALA	45	Drama	Chif outport for Macedonian to
LARISSA*	18	Larissa	Leather, cotton, silk, tobacco,
PATRAS*	18	Achaia	Currants, olive oil, olives, citron,
Piræus	74	Attica	Cotton, machinery, breweries, rope works. (Port of Athens.)
Saloniki*	160	Saloniki	(Principal Ægean seaport of the Balkan States.) Leather, cotton- spinning, brewing, iron-founding mastic.
Seres*	18	Seres	Wool, cloth, carpets, rice.
VODENA	9	Saloniki	Centre of rice industry.
Volo*	23	Magnesia	(Chief seaport of Thessaly.)

*Capital of province.

CAPITAL.—Athens. Population 167,479 (with Piræus, 241,058). CHIEF PORTS.—Piræus, Patras, Nauplia, Volo, Saloniki, and Kavala on the mainland.
Commerce.-

-The chief trade is with the United Kingdom, the United

CHIEF IMPORTS.—Cotton and other manufactures, corn, timber, cattle, hides, sugar, and coal.

hides, sugar, and coal.

CHIEF EXPORTS.—Currants, figs, olive oil, wine, cognac, tobacco, hides, lead, iron ore, magnesium, emery, marble, and sponges.

COMMUNICATIONS.—There are about 1,000 miles of railroad. Before the Balkan Wars (1912-1913) Greece was completely isolated by land from the rest of Europe, but is now being linked up with the European system. There is a ship canal through the Isthmus of Corinth, but it is rarely used to the foreign weekle.

There is a ship canal through the Isthmus of Corinth, but it is rarely used by foreign vessels.

There are about 6,000 miles of telegraph lines, with 10,000 miles of wire; and 1,500 miles of telephone lines, with 5,000 miles of wire.

Government.—On gaining its independence in the famous struggle of 1821-1820, after centuries of subjection to Turkey, Greece was in 1830 declared a kingdom under the protection of Great Britain, France, and Russia. The executive is vested in the king and his ministers. The legislative authority is in the hands of the Boule, a single chamber of 184 members elected by manhood suffrage for four years. The deputies are paid 4,000 drachmai (\$800) a year, except those living in Athens or in Piræus, who receive only 3,200 drachmai (\$640).

TURKEY IN EUROPE

Until the war of 1912-1913 (Bulgaria, Greece, Serbia, and Montenegro against Turkey), the European dominion of Turkey extended westward to the Adriatic and northward to Bosnia-Herzegovina (Austria). Under the treaty of London (May 30, 1913) the northwest portion of Turkey was a line drawn from Enos, in the Ægean, to Midia, in the Black Sea, thus excluding Adrianople, which had capitulated to the Bulgarians after a prolonged siege. During the second Balkan War (Bulgaria against the other members of the Balkan League) Turkey took advantage of the military difficulties of Bulgaria and reoccupied Adrianople, thus recovering a considerable portion of the vilayet of that name. In 1911-1912 Turkey lost the remaining portion of her African possessions through the occupation by Italy of Tripoli and Cyrenaica, which were ceded under the treaty of Ouchy (1912). Turkey joined forces with the Teutons in November, 1914, and attacked the Allies. Her doom as a European power is in all probability sealed. sealed.

European Turkey consists of the vilayets or provinces of Adrianople and Constantinople, and the mutessarifat or district of Chatalja, and is separated from Asia by the Bosphorus at Constantinople and by the Dardanelles (Hellespont), about 40 miles in length, with a width varying from one to four miles—the only political neighbour being Bulgaria, on the north-

CLIMATE.—The climate is mild. The mean temperature of Constantinople in January is 42.8°F., and in July 72.5°F.

CITIES AND INDUSTRIES.—Constantinople, the capital of the empire, has a population of about 1,200,000. Most of the commerce of the ciry is in the hands of foreigners and Armenian and Greek merchants; the Turks themselves have little to do with trade on a large scale. Adrianople, on the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the Mariana has a completion of vaccount desired by the vaccount desired by the vaccount d the Maritza, has a population of 100,000, and contains carpet factories and

distilleries of attar of roses.

Government.—Until recent times Turkey was an absolute monarchy under a Sultan. In 1876 the Sultan proclaimed a constitution, but suspended it in 1878. The peaceful revolution brought about by the Young Turks in 1908 led to its restoration.

Under the constitution the Sultan, who is the protector of the Moslem sultaness and dismisses his ministers, concludes all treaties with

religion, appoints and dismisses his ministers, concludes all treaties with foreign powers, declares war, is the head of the military and naval forces, and can dissolve parliament. The legislature consists of a Senate, whose members are nominated by the Sultan, and a Chamber of Deputies elected for four years. Deputies must be Ottomans; they receive 20,000 piastres (about 5000) per session and travelling expenses. (about \$900) per session and travelling expenses.

For Turkey in Asia, see page 315.

SHORT TRIPS IN EUROPE

For the American tourist who wishes to see as much of Europe as possible during a short vacation abroad we suggest the following trip. It is one specially recommended in Rolfe's "Satchel Guide to Europe."

THREE WEEKS FROM LONDON TO LONDON

DAY I. Take the Great Eastern route, via Harwich, to Antwerp, arriving at about 10 A. M. Spend the rest of that day in Antwerp, going to Brussels in the evening (or early next day).

DAY 2. Spend the day and night in Brussels.

DAY 3. Leave Brussels by morning express (about 10 A. M.) for Cologne, via Liège, arriving at about 4 P. M.

DAY 4. A day in Cologne.

DAY 5. From Cologne to Bingen by Rhine steamer (8:45

A. M. to 7 P. M.).

DAY 6. From Bingen to Strassburg, via Kreuznach (about 9:40 A. M. to 2 P. M.). This route is shorter and more picturesque than that from Mainz (Mayence), until the two unite; and by spending the night at Bingen, two hours on the Rhine (from 7 to 9 P. M., or later, if the river is low) are saved. Even if one wants to visit Mainz, it is pleasanter

to stop at Bingen and go on by rail next morning.

From Strassburg one has a choice of three routes to Switzerland: (1) direct to Bâle, via Mülhausen, or (2) via Appen-weier and Freiburg; or (3) to Schaffhausen, via Appenweier, Offenburg, and the Black Forest Railway. Going to Bâle by either route, he will arrive early in the evening, and may, if he chooses, push on to Lucerne the same night, arriving between 9 and 10 P. M. If he spends the night in Bâle, he can reach Lucerne at about 10 A. M. next day. We advise him, however, to take the Black Forest route, as follows:—
"DAY 7. Strassburg to Schaffhausen (12 M. to 6:15 P. M.).
DAY 8. Schaffhausen to Zurich (2 hours), dividing the

rest of the day between the two towns.

DAY 9. From Zurich to Zug by rail (1 hour), over Lake Zug by steamer to Arth (about 1 hour), and up the Rigi by the railway on that side of the mountain; thence, after an hour or two on the summit, down by the other railway to Vitznau, where take the steamer for Flüelen, and thence to Lucerne, when the boat returns. All this can be comfortably done in one day, reaching Lucerne at about 7 P. M.

DAY 10. After a morning walk about Lucerne, leave at about II A. M. for Alpnach and the Brünig, reaching Brienz about 4 P. M. Go on by steamer (about 20 minutes) to

Giessbach and spend the night there.

DAY II. To Interlaken by steamer over Lake Brienz, arriving about noon, and spending the rest of the day there.

DAY 12. Devote this day to an excursion to Lauter-brunnen and Grindelwald by railway via Zweilütschinen; or take the railway from Lauterbrunnen over the Wengern Alp, returning to Interlaken by rail from Grindelwald.

The excursion from Lauterbrunnen to Mürren may be

substituted for that to Grindelwald by the Wengern Alp. It is hard to choose between the two, so far as the scenery is concerned; but the Mürren trip is shorter and much easier now that it can be made by rail.

DAY 13. To Bern in the morning, and thence to Fri-

bourg in the afternoon.

DAY 14. To Lausanne, and by night express to Paris.

DAY 14. To Lausanne, and by night express to Lausanne, and by night express to Lausanne, and by night express to Lausanne, and by night express to Lausanne, and Days 15-19. Five days in Paris.

DAY 20. To Rouen by morning train.

DAY 21. To London via Dieppe (most convenient route). If one objects to travelling on Sunday, he should arrange, if possible, to be in Brussels (2d day) or Cologne (4th day) on Sunday, and spend the next Sunday at Schaffhausen or Zurich, adding one day to the twenty-one above. The third Sunday would be spent in Paris in either case.

Heidelberg may be substituted for Strassburg by going (6th day) from Bingen to Heidelberg via Mainz (about 4 hours) and next day from Heidelberg to Schaffhausen (about

10:30 A. M. to 6:15 P. M.).

A SHORT RUN INTO NORTHERN ITALY

DAY I. Go from Lucerne (Day 9 above) to Milan by St. Gothard Railway (about 10 A. M. to 5:30 P. M.). By leaving Lucerne an hour earlier, one can go by steamer over the Lake to Flüelen, taking the train at the landing there.

DAY 2. Leave Milan at about I P. M. for Venice,

arriving at about 7 P. M.

DAYS 3, 4. Two days in Venice.

DAY 5. To Verona by morning train (about 3 hours), and thence back to Milan in the evening.

DAY 6. From Milan to Lucerne by St. Gothard.

Two days more will enable one to go from Milan to Genoa (about 4 hours by rail) and back, giving some additional time in the former city and ample time for seeing the latter.

The tourist can avoid returning from Italy by the same route, and see a good deal of Alpine scenery besides, if he takes the *Brenner* road from *Verona* to *Innsbruck*, and on the next day the Arlberg road from there to Constance, Zurich, or Lucerne. Leaving Innsbruck at about 9 A. M. he will reach Bregenz about 2 P. M. and Constance by steamer about 5 P. M.; or Zurich (by railway) at about 6 P. M.; or Lucerne about II P. M.

The route may be reversed (and combined with the tour above) by going from Zurich (Day 9) to Innsbruck; thence to Verona; thence to Venice; thence direct to Milan; and thence over the St. Gothard to Flüelen and Lucerne. day can then be given to the Lake and the Rigi; after which the trip may be continued over the Brünig as above (Day 10).

If two days more can be spared for northern Italy, the time may be well devoted to the Lakes, taking a portion of the route described below. Instead of going through from Lucerne to Milan, stop at Lugano (about 3 P. M.), next day go to Porlezza, Menaggio, and Bellagio and next to Como and Milan. If preferred, the other half of the route can be taken; that is, from Lugano by Ponte Tresa, Luino, Locarno, Pallanza (or Baveno), and Arona to Milan.

If this little tour among the Lakes be taken on leaving Italy, either of the half-routes will simply be reversed.

THE ITALIAN LAKES

For a short excursion taking in Lakes Como, Lugano, and Maggiore, we commend the following: From Milan by rail to Como; thence by steamer to Bellagio. Spend the rest of the day and the night there, visiting the Villa Serbelloni for the loveliest view in all Italy. Next morning, go by steamer to Menaggio, thence by railway to Porlezza on Lake Lugano, and by steamer to Lugano; spending the afternoon and night there, or going on by steamer to Ponte Tresa, and by railway to Luino on Lake Maggiore. From Luino go up the lake by steamer to Locarno, and down by the return boat to Pallanza or Baveno. Visit the Borromean Isles, and next morning take the steamer to Arona, and rail back to Milan. If you leave Italy by the St. Gothard route, go down Lake Maggiore from Luino to Pallanza, then up to Locarno, and by rail to the St. Gothard.

NORWEGIAN FIORDS

This is a most delightful trip in summer. Steamers leave Newcastle, Hull, Leith, and Aberdeen, and cross the North Sea to Skudesnæs. The sailing is then continued for hundreds of miles through the magnificent scenery of the coasts and fiords of Norway, protected from the ocean by a series of outlying islands, occasionally varied by short excursions on shore. The trip is generally continued through the *Hardanger Fiord*, past *Bergen*, through the *Sogne Fiord*, and past Molde to Trondhjem; which includes the most interesting part of the Norwegian coast. Those who have more time and money at their disposal often continue the journey right along the coast of Norway to Hammerfest and the North Cape, in order to see the Midnight Sun.

AFRICA

THE DARK CONTINENT.—Africa is rapidly losing its claim to the distinguishing title of "the Dark Continent," for there are few parts of that vast continent that have not been explored by intrepid Europeans. If by "dark" we allude to the barbarism of the African tribes, then the designation will hold good for many years to come. The opening up of Africa is one of the most marvellous achievements of our own times.

Until the close of the Napoleonic wars, the greater part of Africa was practically unknown to Europeans. A glance at old maps will reveal the ignorance that then prevailed. This was the period when, as Swift satirically said-

> "Geographers, in Afric maps, With savage pictures filled their gaps, And o'er unhabitable downs Placed elephants for want of towns."

Era of Exploration.—Among those who yearned to fill in the gaps and to become acquainted with the "regions beyond" was that great British missionary and explorer David Livingstone. In 1849 he crossed the Kalahari desert from south to north and reached Lake Ngami. Within the next seven years Livingstone traversed the continent from west to east, tracing the Zambezi to near its source, and discovering the southernmost tributaries of the Congo. During these wanderings he discovered the celebrated Victoria Falls (November, 1855), so named in honour of the queen of England. Next he explored the Lower Zambezi, the Shiré River, and Lake Nyasa. A third time he returned to the Zambezi to find out what lay beyond Lake Nyasa. Thus he discovered Lakes Bangweolo and Mweru, and the south end of Lake Tanganyika; the upper end of Tanganyika had been previously visited by Burton and Speke (1858). Fi-

nally Livingstone discovered the Lualaba, the upper course of the Congo, which he believed to be the head-stream of the Nile, and firm in that belief Livingstone died his lonely death in the heart of Africa. No single explorer has done so much for African geography as Livingstone. "In the annals of exploration of the Dark Continent," wrote Stanley, "we look in vain among other nationalities for a name such as Livingstone's. He stands preëminent above all; he united in himself all the best qualities of other explorers."

Livingstone's example and death acted as an inspiration. His work was carried on by the traveller who came to his rescue-Stanley-and by another relief expedition under Cameron. The latter tramped right across Central Africa on foot from the Zanzibar coast to Angola. Stanley, a Welshman by birth, set himself to solve the mystery of the Lualaba (Livingstone's river), and in spite of almost insuperable difficulties—cutting his way through miles of forest and battling with cannibal tribes—proved that the Lualaba and the Congo are one stream by following the river to the Atlantic Ocean.

Meanwhile other British explorers, Speke and Grant, had solved the riddle of the Nile; while another explorer, Samuel Baker, discovered the Albert Nyanza, the western reservoir of the Nile.

No Negro race cared whence the Nile came or whither it flowed. Interest in geographical problems is almost the exclusive heritage of the Caucasian. This is the human race which for some three thousand years has felt first a flickering curiosity, latterly an intense desire, to wrest the secret of the Nile sources from the heart of Africa. Its aim is accomplished. The main features of the Nile system are placed on the maps of civilized men.¹

¹Sir Harry Johnson, "The Nile Quest" (1903).

DIAMONDS AND GOLD.—In South Africa the gaps in the map were being rapidly filled up. The finding of diamonds in 1869 caused a rush to the valley of the Vaal River, and led to conflicts between the Dutch and British authorities. The development of the Witwatersrand (the "Rand") mines from 1887 led to a further rush and to other clashes with the Boers, culminating in the South African War.

Scramble for Africa.—In the early 'eighties began the great scramble for Africa on the part of European nations. The Germans, seeking to rival the British colonial empire, began to seize large tracts in southern and central Africa. The French also sought to extend their power into the Sahara and the Niger valley. In order to prevent its colonies from being cut off from the interior, Great Britain was forced to make similar seizures. Thus it came about that in a few years practically every part of the African continent that had not been previously attached was carved into European protectorates and spheres of influence.

CECIL JOHN RHODES.—One of the principal promoters of British expansion was Rhodes, the great empire-builder, whose dream was to extend the British dominions from the Cape to the Zambezi—"From Lion's Head to Line." With his enormous wealth amassed in the gold and diamond fields of South Africa, and aided by Dr. (later Sir L. S.) Jameson and by the famous lion-hunter Selous, his ambitious scheme was almost realized and Rhodesia was placed upon the map. The German colony of East Africa barred his northern progress; but the Great War swept the barrier away, though Rhodes did not live to see this "all red" path from the Cape to the Suez Canal.

RACES OF AFRICA

The races of northern Africa are more akin to the races of southern Europe than to those of central and southern Africa. In fact, the north of Africa forms one region with the south of Europe in respect of structure, vegetation, climate, and race. In describing the races of Europe (see p. 243) we introduced the Mediterranean race. This race may be regarded as including the Hamites and the Semites, who together make up the bulk of the population of northern Africa.

Hamites.—The Hamites have dark skins, well-formed features, and frequently frizzly (but not woolly) hair. To the western division of this group belong the Berber peoples north of the Sahara, the Tuaregs of the western Sahara south of Algeria, and the Fulahs, a Sudanese people with a mixture of Negro blood. To the eastern division belong the Fellahin and the Copts of Egypt, the Bejas between the Middle Nile and the Red Sea, and the Gallas and the Somali between the head-streams of the Nile and the Indian Ocean.

Semites.—The Semites have curly and abundant hair, long skull, oval face, and prominent nose, either straight or aquiline. The Semites are Caucasians, and in ancient times included the Babylonians, Assyrians, Phœnicians, and other peoples of southwestern Asia. They are now chiefly represented by the Jews and Arabs. The home of the Arabs is the Arabian peninsula. They are an enterprising race, and have spread not only over western Asia but over a large part of Africa, where their blood is largely intermingled with that of other races. The nomadic Arabs of northern Africa are mostly pure Semites, while the Moors dwelling in towns are of mixed descent. The Abyssinians are a mixture of Arab and Hamitic elements. As we go farther south we find the racial distinctions much less clearly descent.

fined. This is largely due to the absence of natural barriers, and the consequent ease of communication between the various races.

NEGROES.—The Negroes belong to the typical African branch of the Ethiopian race, and are characterized by tall stature and often powerful physique, flat broad nose, woolly hair, thick everted lips, prominent jaws with large teeth, and dark brown to sooty black skin. The true Negroes are found in the Sudan; they have extended north into the desert and south to the coast of Upper Guinea.

NEGROIDS.—The Negroes have intermingled with other stocks, for example, with Hamites in the north and with Bushmen in the south; and these mixed Negro races are known generally as Negroids. In central and southern Africa there is a group of languages known as Bantu. The native tribes speaking any of these Bantu languages or dialects are commonly called Bantus. In reality they are Bantu Negroids, for the Bantus do not properly form a racial unit. They are usually shorter than the true Negroes and their skin is not so dark. The Bantu Negroids form three important groups in South Africa: (1) The Bechuanas and Basutos, in the centre and extending eastward to the Drakenbergs; and in the upper basin of the Zambezi, the Barotse and the Mashonas. (2) The warlike Zulus and the Matabele, east of the Drakenbergs. The general term Kaffirs is often applied to the Zulus, as well as to other Bantu tribes occupying the region between Cape Province and Natal. (3) The Hereros of Damaraland and kindred tribes on the west of the continent.

BUSHMEN.—The Bushmen are a race of nomadic hunters chiefly inhabiting the Kalahari desert. They are very short (usually under five feet), with a flat triangular face, a leathery yellow skin, and short woolly hair growing in tufts. They are regarded as the aborigines of central and southern Africa, related to the Pygmies.

HOTTENTOTS.—Still another native race, and one that has probably sprung from a blending of the Bushmen and the Bantus, is found in South Africa—the Hottentots. The skin of the Hottentot is yellowish brown, and he is slightly taller than the Bushman. The purest Hottentots are the Namas of Namaqualand (or Namaland) of Southwest Africa. A great number are scattered throughout Cape Province, but these are mostly of mixed Hottentot and Bantu or Boer descent.

Pygmies.—In the dense forests of equatorial Africa are tribes of Pygmies, or Negrillos as they are scientifically called to distinguish them from the Negrilos or Asiatic Pygmies. The average height of the Negrillos is not more than four feet six inches. They have crisp, curly hair; large ape-like mouth; receding chin; an abundance of fine woolly hair on the body; and a general ape-like appearance. They have a dark yellowish skin, and their feet are large, and bent slightly inwards. They wear practically no clothing, and their dwellings are simply arbours made of interlaced branches and leaves, with a small hole near the bottom into which the Pygmy crawls on all fours. Like the Bushmen, they are expert with the bow and poisoned arrows. The Negrillos use arrows as a medium of exchange. For instance, ten to fifteen arrows will purchase a wife among these forest dwarfs.

LATER IMMIGRANTS.—In various parts of Africa there are settlements of Europeans, besides a number of East Indians, Malays, Chinese, and other Asiatics. In South Africa the half-breeds are commonly called *Cape boys* or *Cape girls*, as the case may be. When the writer was in South Africa, he was often amused by these Cape boys claiming to be "Scotch."

VICTORIA FALLS.—The Victoria Falls in the river Zambezi were discovered by Livingstone in November, 1855. Livingstone approached them from above and gained his first sight of the falls from the island on its lip now named after him. Five years later Livingstone, with Dr. (afterward Sir John) Kirk, made a fuller investigation of these marvellous falls.

We landed at the head of Garden Island, which is situated near the middle of the river and on the lip of the Falls. On reaching that lip and peering over the giddy height, the wondrous and unique character of the magnificent cascade

at once burst upon us.

It is rather a hopeless task to endeavour to convey an idea of it in words, since, as was remarked on the spot, an accomplished painter, even by a number of views, could but impart a faint impression of the glorious scene. The probable mode of its formation may perhaps help to the conception of its peculiar shape. Niagara has been formed by a wearing back of the rock over which the river falls, and, during a long course of ages, it has gradually receded, and left a broad, deep, and pretty straight trough in front. It goes on wearing back daily, and may yet discharge the lakes from which its river—St. Lawrence—flows. But the Victoria Falls have been formed by a crack right across the river, in the hard, black, basaltic rock which there formed the bed of the Zambezi. The lips of the crack are still quite sharp, save about three feet of the edge over which the river The walls go sheer down from the lips without any projecting crag, or symptom of stratification or dislocation. When the mighty rift occurred, no change of level took place in the two parts of the bed of the river thus rent asunder; consequently, in coming down the river to Garden Island, the water suddenly disappears, and we see the opposite side of the cleft, with grass and trees growing where once the river ran, on the same level as that part of its bed on which we sail. The first crack is, in length, a few yards more than the breadth of the Zambezi, which by measurement we found to be a little over 1,860 yards, but this number we resolved to retain as indicating the year in which the Fall was for the first time carefully examined.

The main stream here runs nearly north and south, and the cleft across it is nearly east and west. The depth of the rift was measured by lowering a line, to the end of which a few bullets and a foot of white cotton cloth were tied. of us lay with his head over a projecting crag, and watched the descending calico, till, after his companions had paid out 310 feet, the weight rested on a sloping projection, probably 50 feet from the water below, the actual bottom being still farther down. The white cloth now appeared the size of a crown piece. On measuring the width of this deep cleft by sextant, it was found at Garden Island, its narrowest part, to be eighty yards, and at its broadest somewhat more. Into this chasm, of twice the depth of Niagara Falls, the river a full, mile wide, rolls with a deafening roar; and this is Mosi-oa-tunya or the Victoria Falls.

WITH SPEKE IN UGANDA.—The English explorer, John Hanning Speke, started out with his expedition of over 200 men from Zanzibar in October, 1860, in quest of the source of the Nile. He encountered illness on the march, besides the hostility and extortion of the natives. Arriving at the capital of Uganda, Speke was detained by the king, Mutesa, for several months, but at last being provided with guides he reached the spot (July 28, 1862) where the Nile issued from the Victoria Nyanza lake. Thus the problem which had baffled all former efforts-extending over two thousand years-was solved.

During his enforced stay at the court of the tyrant of Uganda, Speke became a great favourite. The young king was very trying to deal with, and not infrequently Speke intervened to save the lives of queens or pages who for a

mere nothing were condemned to a cruel execution. On one occasion a picnic on the shores of the Victoria Nyanza was attended by the following incident. One of Mutesa's wives, "a most charming creature, and truly one of the best of the lot, plucked a fruit and offered it to the king, thinking, doubtless, to please him greatly; but he, like a madman, flew into a towering passion, said it was the first time a woman had ever had the impudence to offer him anything, and ordered the pages to seize, bind, and lead her off to execution. These words were no sooner uttered by the king than the whole bevy of pages slipped their cord turbans from their heads, and rushed like a pack of cupid beagles upon the fairy queen, who, indignant at the little urchins daring to touch her majesty, remonstrated with the king, and tried to beat them off like flies, but was soon captured, overcome, and dragged away, crying on the names of the Kamuraviona and 'Mzungu' (myself) for help and protection; whilst Lubuga, the pet sister, and all the other women clasped the king by his legs, and kneeling, implored forgiveness for their sister. The more they craved for mercy, the more brutal he became, till at last he took a heavy stick and began to belabour the poor victim on the head.
"Hitherto I had been extremely careful not to interfere

with any of the king's acts of arbitrary cruelty, knowing that such interference, at an early stage, would produce more harm than good. This last act of barbarism, however, was too much for my English blood to stand; and as I heard my name, 'Mzungu' (i. e., 'White-man') imploringly pronounced I rushed at the king, and staying his uplifted arm, demanded from him the woman's life. Of course I ran imminent risk of losing my own in thus thwarting the capricious tyrant; but his caprice proved the friend of both. The novelty of interference even made him smile, and the woman was instantly released."1

STANLEY'S FINDING OF LIVINGSTONE.—How Stanley was sent by the proprietor of the New York Herald to search for Livingstone, how he overcame innumerable difficulties and dangers and at length (November 10, 1871) found the great explorer whom the world believed to be either lost or dead, and, above all, the dramatic meeting of the two white men in the heart of Africa, are among the most stirring pages in the records of African exploration.

We were now about three hundred yards from the village of Ujiji, and the crowds are dense about me. Suddenly I hear a voice on my right say: "Good morning, sir!"

Startled at hearing this greeting in the midst of such a crowd of black people, I turn sharply around in search of the man, and see him at my side, with the blackest of faces, but animated and joyous—a man dressed in a long white shirt, with a turban of American sheeting around his woolly head, and I ask:

'Who the mischief are you?"

"I am Susi, the servant of Dr. Livingstone," said he, smiling, and showing a gleaming row of teeth.

"What! Is Dr. Livingstone here?"
"Yes, sir."

"In this village?"
"Yes, sir."

"Are you sure?" "Are you sure?"
"Sure, sure, sir. Why, I leave him just now."
"Good morning, sir," said another voice.
"Hallo," said I, "is this another one?"
"Yes, sir."
"Well, what is your name?"
"My name is Chumah, sir."
"What leave you Chumah the friend of Wekota

"What! are you Chumah, the friend of Wekotani?" "Yes, sir."

"And is the Doctor well?" "Not very well, sir." "Where has he been so long?"

[&]quot;In Manyuema."

David and Charles Livingstone, "Expedition to the Zambezi and Ita Tributaries" (1866).

^{11.} H. Speke, "Journal of the Discovery of the Source of the Nile" (1861).

"Now, you Susi, run, and tell the Doctor I am coming."

"Yes, sir," and off he darted like a madman.

But by this time we were within two hundred yards of the village, and the multitude was getting denser, and almost preventing our march. Flags and streamers were out; Arabs and Wangwana were pushing their way through the natives in order to greet us, for, according to their account, we belonged to them. But the great wonder of all was, "How did you come from Unyanyembe?"

Soon Susi came running back, and asked me my name; he had told the Doctor that I was coming, but the Doctor was too surprised to believe him, and, when the Doctor asked

him my name, Susi was rather staggered.

But, during Susi's absence, the news had been conveyed to the Doctor that it was surely a white man that was coming, whose guns were firing and whose flag could be seen; and the great Arab magnates of Ujiji . . . had gathered together before the Doctor's house, and the Doctor had come out from his veranda to discuss the matter and await my arrival.

In the meantime, the head of the Expedition had halted, and the kirangozi [guide] was out of the ranks, holding his flag aloft, and Selim said to me, "I see the Doctor, sir. Oh what an old man! He has got a white beard." And I what would I not have given for a bit of friendly wilderness, where, unseen, I might vent my joy in some mad freak, such as idiotically biting my hand, turning a somersault, or slashing at trees, in order to allay those exciting feelings that were well-nigh uncontrollable. My heart beats fast, but I must not let my face betray my emotions, lest it shall detract from the dignity of a white man appearing under

such extraordinary circumstances.

So I did that which I thought was most dignified. pushed back the crowds, and, passing from the rear, walked down a living avenue of people, until I came in front of the semi-circle of Arabs, in the front of which stood the white man with the gray beard. As I advanced slowly toward him I noticed he was pale, looked wearied, had a gray beard, wore a bluish cap with a faded gold band round it, had on a red-sleeved waistcoat, and a pair of gray tweed trousers. I would have run to him, only I was a coward in the presence of such a mob-would have embraced him, only, he being an Englishman, I did not know how he would receive me; so I did what cowardice and false pride suggested was the best thing-walked deliberately to him, took off my hat, and said:

"Dr. Livingstone, I presume?"
"Yes," said he, with a kind smile, lifting his cap slightly. I replace my hat on my head, and he puts on his cap, and we both grasp hands, and I then say aloud:

"I thank God, Doctor, I have been permitted to see you." He answered, "I feel thankful that I am here to welcome

you."

I turn to the Arabs, take off my hat to them in response to the saluting chorus of "Yambos" [how are you?] I receive, and the Doctor introduces them to me by name. Then, oblivious of the crowds, oblivious of the men who shared with me my dangers, we—Livingstone and I—turn our faces towards his tembe [house]. He points to the veranda, or rather, mud platform, under the broad overhanging eaves; he points to his own particular seat, which I see his age and experience in Africa has suggested, namely, a straw mat, with a goatskin over it, and another skin nailed against the wall to protect his back from contact with the cold mud. I protest against taking this seat, which so much more befits him than me, but the Doctor will not yield: I must take it.

We are seated—the Doctor and I—with our backs to the wall. The Arabs take seats on our left. More than a thousand natives are in our front, filling the whole square densely, indulging their curiosity, and discussing the fact of two white men meeting at Ujiji—one just come from Manyuema, in the west, the other from Unyanyembe, in the east.

Conversation began. What about? I declare I have

forgotten. Oh! we mutually asked questions of one another,

such as:
"How did you come here?" and "Where have you been all this long time?—the world has believed you to be dead."

Yes, that was the way it began; but whatever the Doctor informed me, and that which I communicated to him, I cannot correctly report, for I found myself gazing at him, conning the wonderful man at whose side I now sat in Central Africa. Every hair of his head and beard, every wrinkle of his face, the wanness of his features, and the slightly wearied look he wore, were all imparting intelligence to me-the knowledge I craved for so much ever since I heard the words, "Take what you want, but find Livingstone."1

MATRIMONIAL MATCHES IN UGANDA. Until their marriage, the girls in the Unyoro villages go about perfectly nude, even when they go out of the house. The married women are also naked in the house, but never in the presence of servants or of strangers.

When two families are on friendly terms, and wish to make a match between their children, the two fathers, in the first place, visit each other twice or thrice to drink mwenge, and on such occasions many guests are invited. Then the bride's father goes to the father of the bridegroom, and offers him his daughter "for friendship's sake." After this, the price of the bride is discussed and fixed, and a great feast follows, to which both parties contribute. A few days after the stipulated sum has been paid, the bride is fetched in the midst of a large procession; amidst singing and dancing, and copious libations of mwénge, the way is taken to the bridegroom's house, where she is handed over to the bridegroom, and the whole company spends the night in singing, dancing, and drinking. The father of the bride receives for himself and his people the two hindquarters of the ox slaughtered on this occasion by the bridegroom's father. On the third day after the completion of the marriage, the whole village assembles to pad the hut of the newly wedded couple with hay, when fresh libations follow. On the sixth day after the wedding the young wife visits her parents, and during this visit, of three or four days' duration, the husband keeps aloof. Fresh symposia given by the father of the bride bring the ceremonies to a conclusion. The young wife then returns to her house, and if her husband is in good circumstances, passes her time in smoking, coffee-chewing, idling, and paying visits.²

WITH STANLEY IN DARKEST AFRICA.—In 1887 Stanley organized an expedition for the relief of Emin Pasha (Eduard Schnitzer), who after the Mahdist rising in the Sudan was cooped up with his Egyptian followers in the Equatorial Province of Egypt at Wadelai, north of Lake Albert Nyanza. Stanley this time entered Africa on the west by way of the Congo; and after a series of extraordinary marches through a forest region, during which starvation, fever, and the hostility of native tribes were daily instances, so that Stanley lost nearly half of his men, he met Emin Pasha in the neighbourhood of the Albert Nyanza on April 29, 1888.

During this journey Stanley had unpleasant experiences of the Manyuema, a tribe of the Upper Congo formerly noted for cannibalism and slave raiding.

It is but right to acknowledge that we were received on the first day with ostentatious kindness, but on the third day something of a strangeness sprang up between us. Their cordiality probably rose from a belief that our loads contained some desirable articles, but unfortunately the firstclass beads that would have sufficed for the purchase of all their stock of corn were lost by the capsizing of a canoe near Panga Falls, and the gold-braided Arab burnooses were stolen below Ugarrowwa by deserters. Disappointed at not receiving the expected quantity of fine cloth or fine beads, they proceeded systematically to tempt our men to sell everything they possessed, shirts, caps, waist cloths, knives, belts, to which, being their personal property, we could make no objection. But the lucky owners of such

¹H. M. Stanley, "How I Found Livingstone" (1889). ²Emin Pasha, "In Central Africa" (1889).

articles having been seen by others less fortunate, hugely enjoying varieties of succulent food, were the means of in-spiring the latter to envy and finally to theft. The unthrifty and reckless men sold their ammunition, accoutrements, bill hooks, ramrods, and finally their Remington rifles. Thus, after escaping the terrible dangers of starvation and such injuries as the many savage tribes could inflict on us, we were in near peril of becoming slaves to the Arab

Despite entreaties for corn, we could obtain no more than two ears per man per day. I promised to pay triple price for everything received, on the arrival of the rear column, but with these people a present possession is better than a prospective one. They professed to doubt that we had cloth, and to believe that we had travelled all this distance to fight them. We represented on the other hand that all we needed were six ears of corn per day during nine days' rest. Three rifles disappeared. The Headmen denied all knowledge of them. We were compelled to reflect that, if it were true, they suspected we entertained sinister intentions toward them, that surely the safest and craftiest policy would be to purchase our arms secretly, and disarm us altogether, when they could enforce what terms they pleased on us.

On the 21st six more rifles were sold. At this rate the Expedition would be wrecked in a short time, for a body of men without arms in the heart of the great forest, with a host of men to the eastward and a large body to the westward depending upon them, were lost beyond hope of salvation. Both advance and retreat were equally cut off, and no resource would be left but absolute submission to the chief who chose to assert himself to be our master or Death. Therefore I proposed for my part to struggle strongly against such a fate, and either to provoke it instantly, or ward it off by prompt action.

A muster was made, the five men without arms were sentenced to twenty-five lashes each and to be tied up. After a considerable fume and fuss had been exhibited, a man stepped up, as one was about to undergo punishment,

and begged permission to speak.
"This man is innocent, sir. I have his rifle in my hut; seized it last night from Juma (one of the cooks), son of Forkali, as he brought it to a Manyuema to sell. It may be Juma stole it from this man. I know that all these men have pleaded that their rifles have been stolen by others, while they slept. It may be true as in this case." Meantime Juma had flown, but was found later on hiding in the corn fields. He confessed that he had stolen two, and had taken them to the informer to be disposed of for corn, or a goat, but it was solely at the instigation of the informer. It may have been true, for scarcely one of them but was quite capable of such a course, but the story was lame and unreasonable in this case and was rejected. Another now came up and recognized Juma as the thief who had abstracted his rifle—and having proved his statement and confession having been made—the prisoner was sentenced to immediate execution, which was accordingly carried out by hanging.¹

Among the Abyssinians.—The English traveller, A. Henry Savage Landor, gives an interesting account of his journey across Africa from Jubuti on the Gulf of Aden to Cape Verde. This journey of over 8,500 miles occupied a year. Landor was unaccompanied by any other white person. In the account of his travels2 he has much of interest to tell of the manners and customs of the Abyssinians.

There are fashionable colours among African tribes as there are in Europe, and fashions change continually. Blue beads and brass bracelets were the fashion at the time of my visit to Tchara. Only occasionally one saw a dash of red in the men's shawls. The characteristic basket-work umbrellas were carried both by men and women.

To and fro upon the road leading to the market went women carrying large red earthen jars and calabashes with butter. Some of the smarter ladies were dressed in gowns

1Henry M. Stanley, "In Darkest Africa" (1890). 2" Across Widest Africa" (1907).

not unlike the garments of the ancient Greeks, with a red border at the bottom and leaving one arm exposed.

The men were finer specimens of humanity than the women. They possessed square, bony faces, and the anatomical details of limbs and body were somewhat better proportioned and chiselled. They lead a natural and healthy out-of-door life.

All the Galla of this country were Mussulmans. Of late years the religion of Islam has made, and is making, considerable headway in Abyssinia among the tribes akin to the Galla. Perhaps some day this important Mussulman element in the population of Abyssinia may be a great factor in upsetting the power of the ruling Christians.

As I was writing my notes in the afternoon a man with haggard face and staring eyes and his body reduced to a skeleton by hunger, came into my camp—evidently a case of insanity. Several wounds, which were beginning to heal, had been inflicted upon his body, and when he extended his arms imploring for food a heavy iron chain hung from his wrists where it had been soldered. He was a murderer. The state does not keep its prisoners. When not killed outright they are let loose about the country, driven away like pariah dogs by everybody and obliged to lead a miserable existence. This particular man was a raving lunatic with criminal characteristics noticeable in the formation of his skull and hands. The fingers were short and square-tipped, the thumb repulsively malformed. The forehead was low and narrow, the eyes close to the nose and the cheekbones abnormally developed.

He entreated me to take him along with me on the journey, but I thought a companion of this kind would be rather undesirable, so I gave him food supplies to last several days and persuaded him to leave my camp at his earliest

convenience.

Mombasa.—No idle occupation can be more fascinating than to wander about the mazes of the ancient town. The variety of race and occupation is something astounding. Probably the one human note that, everywhere persisting, draws the whole together is furnished by the water-carriers.

Mombasa has no water system whatever. The entire supply is drawn from numberless picturesque wells scattered everywhere in the crowded centre, and distributed mainly in Standard Oil cans suspended at either end of a short pole. By dint of constant daily exercise, hauling water up from a depth and carrying it various distances, these men have developed the most beautiful powerful figures. They proceed at a half trot, the slender poles, with forty pounds at either end, seeming fairly to cut into their naked shoulders, muttering a word of warning to the loiterers at every other breath

—seméelay! seméelay! No matter in what part of Mombasa you may happen to be, or at what hour of day or night,
you will meet these industrious little men trotting along under their burdens.

Everywhere also are the women, carrying themselves proudly erect, with a free swing of the hips. They wear invariably a single sheet of cotton cloth printed in blue or black with the most astonishing borders and spotty designs. This is drawn tight just above the breasts, leaving the shoulders and arms bare. Their hair is divided into perhaps a dozen parts running lengthwise of the head from the forehead to the nape of the neck, after the manner of the stripes on a watermelon. Each part then ends in a tiny twisted pig-tail not over an inch long. The lobes of their ears have been stretched until they hold thick round disks about three inches in diameter, ornamented by concentric circles of different colours, with a red bull's eye for a centre. The outer edges of the ears are then further decorated with gold clasps set closely together. Many bracelets, necklaces, and armlets complete the get-up. They are big women, with soft velvety skins, and a proud and haughty carriage; the counterparts of the men in the white robes and caps.¹

A LION HUNT.—"In an opening on the edge a hundred yards away appeared one of the lionesses. She was trotting

¹Stewart Edward White, "African Camp Fires" (1913).

slowly, and on her I had time to draw a hasty aim. At the shot she bounded high in the air, fell, rolled over, and was up and into the thicket before I had much more than time to pump up another shell from the magazine." Thus recounts the well-known African traveller, Stewart Edward White.

By this time the others had got hold of their weapons.

We fronted the blank face of the thicket.

The wounded animal would stand a little waiting. We made a wide circle to the other side of the stream. There we quickly picked up the trail of the two uninjured beasts. They had headed directly over the hill, where we speedily lost all trace of them on the flint-like surface of the ground. We saw a big pack of baboons in the only likely direction for a lion to go. Being thus thrown back on a choice of a hundred other unlikely directions, we gave up that slim chance and returned to the thicket.

This proved to be a very dense piece of cover. Above the height of the waist the interlocking branches would absolutely prevent any progress, but by stooping low we could see dimly among the simpler main stems to a distance of perhaps fifteen or twenty feet. This combination at once afforded the wounded lioness plenty of cover in which to hide, plenty of room in which to charge home, and placed us under the disadvantage of a crouched or crawling attitude with limited vision. We talked the matter over very thoroughly. There was only one way to get that lioness out; and that was to go after her. The job of going after her needed some planning. The lion is cunning and exceeding fierce. A flank attack, once we were in the thicket, was as much to be expected as a frontal charge.

We advanced to the thicket's edge with many precau-To our relief we found she had left us a definite trail. B. and I kneeling took up positions on either side, our rifles ready. F. and Simba crawled by inches eight or ten feet inside the thicket. Then, having executed this manœuvre safely, B. moved up to protect our rear while I, with Memba

Sasa, slid down to join F.

From this point we moved forward alternately. I would crouch, all alert, my rifle ready, while F. slipped by me and a few feet ahead. Then he would get organized for battle while I passed him. Memba Sasa and Simba, game as badgers, their fierce eyes gleaming with excitement, their faces shining, crept along at the rear. B. knelt outside the thicket, straining his eyes for the slightest movement either side of the line of our advance. Often these wily animals side of the line of our advance. Often these wily animals will sneak back in a half circle to attack their pursuers from behind. Two or three of the bolder porters crouched alongside B., peering eagerly. The rest had quite properly retired to the safe distance where the horses stood.

We progressed very, very slowly. Every splash of light or mottled shadow, every clump of bush stems, every fallen log had to be examined, and then examined again. And how we did strain our eyes in a vain attempt to penetrate the half lights, the duskingsses of the closed-in thicket not

the half lights, the duskinesses of the closed-in thicket not over fifteen feet away! And then the movement forward of two feet would bring into our field of vision an entirely

new set of tiny vistas and possible lurking places.

Speaking for myself, I was keyed up; to a tremendous tension. I stared until my eyes ached; every muscle and nerve was taut. Everything depended on seeing the beast promptly, and firing quickly. With the manifest advantage of being able to see us, she would spring to battle fully prepared. A yellow flash and a quick shot seemed about to size up that situation. Every few moments, I remember, I surreptitiously held out my hand to see if the constantly growing excitement and the long-continued strain had affected its steadiness.

The combination of heat and nervous strain was very exhausting. The sweat poured from me; and as r. passeume I saw the great drops standing out on his face. My tongue got dry, my breath came laboriously. began to wonder whether physically I should be able to hold out. We had been crawling, it seemed, for hours. I dared not look back, but we must have come a good quarter mile. Finally F. stopped.

"I'm all in for water," he gasped in a whisper.

Somehow that confession made me feel a lot better. had thought that I was the only one. Cautiously we settled back on our heels. Memba Sasa and Simba wiped the sweat from their faces. It seemed that they too had found the work severe. That cheered me up still more.

Simba grinned at us, and, worming his way backward with the sinuosity of a snake, he disappeared in the direction from which we had come. F. curses after him in a whisper both for departing and for taking the risk. But in a moment he had returned carrying two canteens of blessed water. We took a drink most gratefully.

I glanced at my watch. It was just under two hours since I had fired my shot. I looked back. My supposed quarter mile had shrunk to not over fifty feet!

After resting a few moments longer, we again took up

our systematic advance.

We made perhaps another fifty feet. We were ascending a very gentle slope. F. was for the moment ahead. Right before us the lion growled; a deep rumbling like the end of a great thunder roll, fathoms and fathoms deep, with the inner subterranean vibrations of a heavy train of cars passing a man inside a sealed building. At the same moment over F.'s shoulder I saw a huge yellow head rise up, the round eyes flashing anger, the small, black-tipped ears laid back, the great fangs snarling. The beast was not over twelve feet distant. F. immediately fired. His shot, hitting an intervening twig, went wild. With the utmost coolness he immediately pulled the other trigger of his double barrel.

The cartridge snapped.
"If you will kindly stoop down——" said I, in what I now remember to be rather an exaggeratedly polite tone. As F.'s head disappeared, I placed the little gold bead of my .405 Winchester where I thought it would do the most good,

and pulled trigger. She rolled over dead.1

HUNTING THE RHINOCEROS.—Owing to his size, his powerful armament, and his incredible quickness the rhinoceros is a dangerous animal at all times, to be treated with respect and due caution. This is proved by the number of white men, out of a sparse population, that are annually tossed and killed by the brutes, and by the promptness with which the natives take to trees—thorn trees at that!—when the cry of faru! is raised. As he comes rushing in your direction, head down and long weapon pointed, tail rigidly erect, ears up, the earth trembling with his tread and the air with his snorts, you suddenly feel very small and ineffective.

If you keep cool, however, it is probable that the encounter will result only in a lot of mental perturbation for the rhino and a bit of excitement for yourself. If there is any cover you should duck down behind it and move rapidly but quietly to one side or another of the line of advance. If there is no cover, you should crouch low and hold still. The chances are he will pass to one side or the other of you, and go snorting away into the distance. Keep your eye on him very closely. If he swerves definitely in your direction, and drops his head a little lower, it would be just as well to open fire. Provided the beast was still far enough away to give me "searoom," I used to put a small bullet in the flesh of the outer part of the shoulder. The wound thus inflicted was not at all serious, but the shock of the bullet usually turned the beast. This was generally in the direction of the wounded shoulder, which would indicate that the brute turned toward the apparent source of the attack, probably for the purpose of getting even. At any rate, the shot turned the rush to one side, and the rhinoceros, as usual, went right on through. If, however, he seemed to mean business, or was too close for comfort, the point to aim for was the neck just above the lowered horn.

In my own experience I came to establish a "dead line" about twenty yards from myself. That seemed to be as near as I cared to let the brutes come. Up to that point I let them alone on the chance that they might swerve or change their minds, as they often did. But inside of twenty

¹Stewart Edward White, "The Land of Footprints" (1913).

yards, whether the rhinoceros meant to charge me, or was merely running blindly by, did not particularly matter. Even in the latter case he might happen to catch sight of me and change his mind. [Thus, looking over my notebook records, I find that I was "charged" forty odd times—that is to say, the rhinoceros rushed in my general direction. Of this lot I can be sure of but three, and possibly four, that certainly meant mischief. Six more came so directly at us, and continued so to come, that in spite of ourselves we were compelled to kill them. The rest were successfully dodged.

ON THE TRAIL OF THE ELEPHANT.—White and his party next prepared to follow the trail of an elephant, and to stay by the spoor until they came up with him. They took one light tent, blankets, and some cold food.

Before we started the Wanderobo again made medicine; for the pursuit of an elephant is a very solemn thing. Each snipped a link from his ornamental steel chain; one produced an old dried piece of elephant meat; another built a tiny fire. The elephant meat was thrown on the coals, and the links of chain laid atop it. N'jahgi performed the ritual while the rest of us squatted in a circle below him. As yesterday, he raised his hands, palm up, to the skies; he faced in turn all parts of the compass; he bent humbly, his hands crossed on his breast, calling on the forest, the Powers, and the gods of elephants in a loud monotone. The others, once more, their heads low, muttered choral responses, and at times beat the earth softly, in unison, with the palms of their hands. Then suddenly they rose and disappeared, leaving us by the little fire. After a short interval they returned bringing tufts of some herb. These N'jahgi dipped in the white ashes, and with them spattered each countenance, muttering some sort of a charm. The herbs were distributed. Each sat on his share, while N'jahgi intoned another invocation. Obeying a gesture we arose and started for the forest. But this was not all. At the beginning of the elephant spoor the little men all knelt down in a row, beat the earth softly with their palms, shook their herb bundles in the air, bent forward and blew three times on the trail. Then they planted ward and blew three times on the trail. Then they planted the herbs beneath trees on either side of the trail. We started in good earnest.1

A SWARM OF MIDGES.—About three in the afternoon I saw the black smoke of a steamer over the point, drifting down the wind. Joyfully we hastened to a height—to find that the "smoke" was a swarm of midges, a phenomenon for which Victoria Nyanza is famous. There must have been millions of them, for they were in appearance exactly like the voluminous smoke of a steamer that has just been fresh stoked. Once in the air they cannot come down until the wind dies, so their fate is most uncertain.2

OSTRICH FARMING.—One of the most singular enterprises of the South African colonists is that of ostrich farming. Ostrich feathers are now quite as much the product of regulated human labour, applied to the art of domestication, as wool, mohair, or silk. The plumes which play so distinguished a part in the pomp of ceremony and fashion are no longer to be reckoned among the barbaric spoils of the chase. They are the tame products of the farmyard, and are the ultimate results of such commonplace processes as breeding, rearing, herding, feeding, plucking, and sorting. Cape farmers buy and sell ostriches as they do sheep, and they fence in their flocks, stable them, grow crops for them, study their habits, and cut their feathers, as matters of business.

The birds begin to feather at eight months from hatching, but the yield is then poor and of little value. In another

¹Stewart Edward White, "The Land of Footprints" (1913).
²Stewart Edward White, "The Rediscovered Country" (1915).

eight months there is a fresh and improved crop, and the plumes become better with each season. The art of separating the feathers is one which requires practice. Plucking is not looked upon with favour, as it irritates and produces fever. Nipping, or cutting, is considered to be safer. feathers are severed close to the point of insertion, and the stumps are allowed to remain until they can be easily removed.

Dr. Atherstone says:-"My own opinion is that the best plan is that adopted by a farmer in the Western Districts, who had seventy or eighty ostriches, and found the plan the best and most convenient. To show me the whole process he had the whole flock driven into the wagon-house, and we then insinuated ourselves by wriggling among the densely packed birds. He had previously shown me what to do in case of any bird proving vicious; they are perfectly in your power if you seize them by the neck; you may choke them as far as you please until you find them powerless, and you

can then run away.
"Having got with my friend into the middle of the crowd, so packed that they were unable to move, he quietly selected two or three of the best feathers, and with a curved sharp knife in his right hand, the blade protected by lying flat against his finger, he pressed it down as near to the root as he could, and cut it off obliquely upward. The bird was quite unconscious of the operation, standing perfectly still as he handed several to me. He then picked out a blood feather, very beautiful, which, on being cut, bled a little; but the sharp knife separated it without being felt. In a month or six weeks he took out all the stumps, if they had not fallen out. By this means the health of the bird is not impaired; no irritative fever is produced and you can select only the feathers that are in prime condition, leaving the others to ripen in due course."

The average produce of a full-grown bird is about onefourth of a pound weight; but the yield is entirely governed in quantity and quality by the health and vigour of the

ostrich.1

CAIRO.—Cairo, the capital of Egypt, is situated on the right bank of the Nile, 150 miles by rail from Alexandria. It is the "diamond clasp" which closes "the fan of the delta." Cairo is a walled city, commanded by an imposing citadel. It contains four hundred mosques. On the opposite bank of the Nile is the town Gizeh, near which stand three of the largest pyramids. The largest of all is the pyramid of Cheops, which covers an area of nearly thirteen acres. It is built of massive limestone blocks, and its inner burial chambers are approached by sloping passages. It is 480 feet high, and the statement of Herodotus is probably correct when he tells us that it required the labours of a city of 100,000 men during twenty years.

The queer status of Modern Egypt, and its bewildering mixture of three continents at once, is most clearly visible in the metropolis which 'Amr founded. East and west jostle one another alternately in its streets. Electric trams of French pattern pull up the hill to Saladin's citadel, where British soldiers are quartered; another tram runs over a Belgian bridge across the Nile and out to the foot of the pyramids, passing Bedouin on camels, and being passed by American-made motor-cars, along a road which was made for the Empress of the French. Go down to the bazaars, where sandal wood and morocco slippers scent the air, and be offered a patent telescopic walking stick made in Germany; or buy a rug of Bokhara, and learn that the vendor is agent for a famous London firm of furnishers whose buyers traverse all Asia for oriental carpets. The coffee-coloured Nubian cook provides Yarmouth bloaters from the cold storage for breakfast, and buys Australian meat from the same. The palace of Gezira, where Ismail took his pleasure, is now a giant hotel, one of seven such monsters, and the hotel which Shepheard founded in the open fields is now in the centre of Cairo. Native clerks croon

I"Handbook to South Africa."

their accounts aloud to the chick-chick accompaniment of typewriters, and the telephone central exchange takes numbers indifferently in Arabic, French, English, Italian, Greek, or anything. There is no lack of variety in Cairo; there is so much that it becomes monotonous. It is civilized ahead of Parisian fashion, it has only just got a drainage system, and it is the seat of Government.

Take the city of the Arabian Nights, batter it a little, add some corners of Paris, a street or two from Marseilles, and a dash of the select parts of Ealing (forgetting to finish off any of the sidewalks), tack on an "art nouveau Arabe" garden city with sand instead of gardens, run up ten-storey flats in the European business quarter, populate it with every nation, clique, interest, sect, faction, and occupation under the sun, and you will realize that it can have only one effect on its resident, it keeps him to himself. Cairo is too complex to understand, and the Cairene is therefore parochial.1

MOHAMMEDAN FORMS OF SALUTATION.—The Mohammedans are extremely formal in their social manners. Many of their most common usages are founded upon precepts of their religion and distinguish them in society from all other people. Among these is their custom of greeting each other with the salutation of "Peace be on you!" to which the proper and general reply is "On you be peace, and the mercy of God, and his blessings!" This salutation is never to be addressed by a Mohammedan to a person of another religion, nor vice versa.

When particular friends salute each other, they join their right hands, and then each kisses his own hand, or puts it to his lips and forehead, or raises it to his forehead only, or merely places it on his breast, without kissing it; if after a long absence, and on some other occasions, they embrace each other, each falling upon the other's neck, and kissing him on the right side of the face or neck, and

then on the left.

Another mode of salutation is very commonly practised among the lower orders, when two friends or acquaintances meet after a journey: joining their right hands, each of them compliments the other on his safety, and expresses his wishes for his welfare by repeating alternately many times, the words "Selámát" and "Teiyibeen" ("I congratulate you on your safety"; and "I hope you are well"). In commencing this ceremony, which is often continued for nearly a minute before they proceed to make any particular inquiries, they join their hands in the same manner as is usually practised by us; and at each alternation of the two expressions above mentioned, they change the position of the hands. In re-peating the second word, each of the two persons turns his fingers over the thumb of the other; and in repeating the first word again, the former position is resumed.

In polite society various other formal salutations and compliments follow the selam. To most of these there are particular replies, or two or more different forms of reply may be used in some cases; but to return any that custom has not prescribed would be considered as a proof of ignorance or vulgarity. When a person asks his friend, "How is your health?" the latter replies, "Praise be to God!" and it is only by the tone of voice in which he makes this answer that the inquirer can infer whether he be well or ill.2

SYNOPSIS OF AFRICA (See Maps, pp. 49-56)

EXTENT.—Africa is the second largest continent on the globe; it is more than four times the size of Europe. Its area amounts to 11,608,000 square miles; its length is 4,970 miles and its breadth in the widest part is 4,700 miles. In consequence of its regular shape, Africa has a relatively short coast line (16,100 miles). Though Europe is a much smaller continent, its coast line is longer than that of Africa.

Africa is bounded on the north by the Mediterranean, on the west by the Atlantic, on the east by the Red Sea and the Indian Ocean, and on the south by the Southern Ocean.

POPULATION.—About 140,000,000.

CAPES.—On the north: Bon. On the west: Bojador, Blanco, Verde, Palmas, Lopez, and Frio. On the south: Good Hope, and Agulhas. On the east: Guardafui, Delgado, and Corrientes.

BAYS AND GULFS.—In the Mediterranean: Gulf of Sidra and Gulf of Gabes. On the Atlantic: Gulf of Guinea (containing the Bight of Benin and the Bight of Biafra), Walfisch Bay, and Table Bay. On the Southern Ocean: Mossel Bay and Algoa Bay. On the east the chief openings are the Red Sea (with the Gulfs of Suez and Aden) and Delagoa Bay.

STRAITS, ETC.—Strait of Gibraltar, leading from the Atlantic to the Mediterranean; Bab el Mandeb, between the Red Sea and the Gulf of Aden; and the Mozambique Channel, between Mozambique and Madagascar.

ISLANDS. On the west: Madeira (Portuguese), the Canary Islands (Spanish), Cape Verde Islands (Portuguese), Fernando Pot (Spanish), St. Helena and Ascension (British). St. Helena was the island where Napoleon lived from the Battle of Waterloo (1815) till his death in 1821. On the east: Sokotra (British), Pemba (British), Zanzibar (British), Seychelles (British), Comoro Islands (French), Madagascar (French), Mauritius (British), Ré-union (French).

union (French).

BUILD—Africa has no great central range of mountains; there are no vast watersheds. Africa is essentially a continent of table-lands. The greater part of the continent consists of plateaus varying from 2,000 feet to greater part of the continent consists of plateaus varying from 2,000 feet to 9,000 feet in height, with a rim of mountain ranges parallel with the coast. North Africa is a plateau whose mean altitude is about 1,300 feet. It may be divided into three parts: the Sahara; the Sudan; and the Berber Highlands, which include the Atlas range. The Sahara ("Sea of Sand") stretches right across the continent from the Atlantic to the Red Sea. It is sometimes, however, said to cease at the Valley of the Nile. The South African plateaus are considerably higher than those of North Africa. The table-lands of South Africa are separated from each other by mountain ranges, and are buttressed by lofty sierras running round the edges, not far from the and are buttressed by lofty sierras running round the edges, not far from the coast. The largest and highest plateau in South Africa is the East African Table-land, which stretches from the lower Zambezi to the northern boundary of Abyssinia. From this plateau rise, in the neighbourhood of the equator, the two highest summits in Africa—Kilimanjaro (19,500 ft.) and Kenia

The Central Plateau almost coincides with the Congo basin. The Southern Plateau extends from the watershed of the Congo basin to the South Atlantic. It contains the basins of the Zambezi and Orange rivers. The

Atlantic. It contains the basins of the Zambezi and Orange rivers. The southern part of this plateau descends to the sea by three terraces; the highest containing the Kalahari Desert; the middle one, the Great Karroo; and the lowest, the coast-land of the Cape of Good Hope.

MOUNTAINS.—The chief ranges are the Allas (highest point, Jebel Ajashi, 14,800 ft.) on the north; the Kong Mountains (highest point, Pic des Kommono, 4,757 ft.) and the Kamerun Mountains (highest point, Mongo ma Loba, 13,366 ft.) on the west; the Drakenberg Mountains (highest point, Montains (highest point, Ras Dashan, 15,160 ft.). In the southwest of the Cape Province is the famous Table Mountain (3,582 ft.).

PLAINS AND DESERTS.—Between the Gulf of Sidra and Cairo lies the lowest plain in the whole of Africa; much of this plain is below the level of the Mediterranean. Inland from the Gulf of Gabes is another depressed plain. The chief plains, however, are elevated plains or plateaus; the two most extensive being the deserts of Sahara in North Africa and of Kalahari in South Africa. The Kalahari Desert stretches from the Orange River to about 20°S. lat.; it is a dry and sandy region without running water.

CONTINENTAL BASINS.—Africa contains two large areas of continental drainage, one in the north and one in the south, from which no water escapes directly to the sea. These correspond almost exactly to the deserts of Sahara and Kalahari. The Sahara has its *Lake Chad*, with numerous feeders, of which the Shari is the best known; near the Kalahari is *Lake Ngami*, fed by the waters of the Okavango and the Kwito. Lake Ngami is now a marsh, and the evidence of travellers shows that the country around Ngami

RIVERS.—The rivers are unevenly distributed. The divides between their head-waters are often ill-defined; in their middle courses the rivers flow sluggishly over the wide plains; while in their lower courses they enter wild gorges and descend by falls and rapids into the sea. Many of the rivers have dangerous sand-banks near their mouths. The nature of the river system largely explains why Africa has so long remained an inaccessible continent.

The principal rivers are the Nile, the Congo, the Niger, the Zambezi,

the Orange, and the Limpopo.

THE NILE.—The Nile (3,670 miles in length) drains the largest area of all the African rivers. It is formed by two streams: the White Nile (Arabic Bahr el Abiad) which rises on the high eastern table-land where it drains Victoria Nyanza and Albert Nyanza, and the Blue Nile (Arabic Bahr el Azrek) which rises in Abyssinia and unites with the White Nile near Khartum. Flowing northward it is joined by the Atbara at lat. 18°. Owing to the great evaporation in its course across the burning desert, the Nile grows smaller and smaller as it nears the sea. Between the junction of the Atbara and the mouth there are five cataracts. The Nile is navigable as far as Assouan. The delta of the Nile is 120 miles wide between the west mouth at Rosetta and the east mouth at Damietta. The river rises from the end of June to October; its inean rise at Cairo is 27 feet.

The Congo.—The Congo (between 2,500 to 3,000 miles in length) rises on the high table-land between Lakes Tanganyika and Nyasa, and in point of volume is the first river of Africa. The Congo was first fully discovered and surveyed by Stanley in 1877. It is the only large African river which has a true estuary; its estuary is six miles wide.

The Niger.—The Niger (2,600 miles in length) rises near the Sierra Leone frontier and flows inland almost to the edge of the desert; then sweeping round it flows southeastward and is joined by the Binue in Nigeria. About one hundred miles from its mouth, at the Bight of Benin, its delta begins. Khartum. Flowing northward it is joined by the Athara at lat. 18°.

one hundred miles from its mouth, at the Bight of Benin, its delta begins. This delta incloses about 14,000 square miles of low alluvial plain covered with forest and jungle and is crossed by a network of channels.

The Zambezi.—The Zambezi (2,200 miles in length) flows over the south-

¹W. Lawrence Balls, "Egypt of the Egyptians" (1915). ²E. W. Lane, "Manners and Customs of the Modern Egyptians" (1895).

ern table-land, and is separated from the Congo basin by the swampy divide. Its middle course is broken by the Victoria Falls (about 350 feet high), the greatest waterfall in the world. Below and almost at right angle to the falls, the gorge is spanned by a bridge (completed in April, 1905) which forms a link in the Cape to Cairo railway scheme. The Zambezi empties itself through a delta into the Mozambique Channel.

The Orange—The Orange (1,000 miles in length) rises in Basutoland, and after being joined by the Vaal flows west along the northern boundary of Cape Province to the Atlantic.

The Limpopo.—The Limpopo or Crocodile (about 1,000 miles in length) rises in the Transvaal and flows into the Indian Ocean through Portuguese East Africa. It forms the northern boundary of the Transvaal.

Lakes.—The chief lakes are: Victoria Nyanza, discovered by Captain Speke in 1858, and circumnavigated in 80 days by Stanley in 1875; Albert Nyanza, discovered by Sir Samuel Baker in 1864; Tanganyika, discovered by Captain Burton in 1858; Nyasa, discovered by Livingstone in 1850; Bangwoodo or Bemba, first reached by Livingstone in 1866, partially surveyed in 1883 by the French traveller, Victor Giraud, and first circumnavigated by Poulett Weatherley in 1896; and the two continental lakes (those without an outlet) Chad and Ngami.

CLIMATE.—The greater part of Africa lies within the Torrid Zone, and extreme variations of temperature are not experienced. In the extreme north and south the climate is warm, the northern countries being generally hotter and drier than those in the south. As the south of the continent is narrower than the north, the influence of the surrounding ocean is more felt. The greatest heat is found in the eastern Sahara. In Nubia eggs may be baked in the hot sands. The rainfall is greatest when the sun is vertical; hence the greatest rainfall is at the equator.

In tropical Africa the acclimatization of white men is largely dependent on the combating of tropical diseases. The discovery in 1809 of the specie Africa reached alarming proportion between 1893 and 1907. See Climate

Africa reached alarming proportion between 1893 and 1907. See Climate Map of Africa, pp. 50, 51.

Economic Plants of Africa.—(1) Useful Palms: Date Palm (Nile Valley and Saharan oases), down palm (Upper Egypt, etc.), oil palm, yielding palm-oil and palm-kernels (Guinea Coast and Congo districts), coco palm (East Coast, Mauritius, Senegal, etc.), wine palm (Guinea Coast), raphia palm (Madagascar), piassava palm (Congo districts, etc.), deleb palm (East Africa, etc.).

(2) Cultivated Cereals: Sorghum, durra, or kassir corn (Sudan southward), other millets, such as maize (Egypt to South Africa), wheat (Egypt, Algeria, Abyssinia, British South Africa, etc.), barley (Atlas regions, etc.), oats (British South Africa, etc.), rice (Madagascar. Egypt, parts of central Africa, Senegal, etc.).

(British South Africa, etc.), rice (Madagascar. Egypt, parts of central Africa, Senegal, etc.).

(3) Other food plants: Sugar cane (Mauritius, Réunion, Egypt, Natal, etc.), coffee (South Abyssinia, Liberia, British Central Africa, Congo districts, etc.), cocoa (Kamerun, Congo districts, Madagascar, etc.), tea (Natal, etc.), ground-nut (especially Guinea Coast), vine, for wine (Algeria and Union of South Africa), beans (Egypt, Morocco, etc.), olives, for oil (Tunis and neighbouring lands), cloves (Zanzibar), chillies (Zanzibar), kola-nut (West Tropical Africa), yam (West Tropical Africa), tapioca, cassava, manioc (Guinea Coast, islands of Indian Ocean, etc), ginger (West Africa), bananas and plantains (Guinea Coast and other parts of tropical Africa, also Canary Islands), chick-pea (Morocco, etc.), pigeon-pea (Congo districts, etc.), vanilla (Mauritius, Réunion, Zanzibar, Madagascar, and parts of mainland), shea butter (West Africa), sweet potato (various parts of tropical Africa), kaffir bread (South Africa), fruits and vegetables (Algeria, Egypt, Union of South Africa).

kaffir bread (South Africa), fruits and vegetables (Algeria, Egypt, Union of South Africa).

(4) Useful trees (other than palms): Cedar (Atlas regions), baobab (the savanna land of Equatorial Africa), bamboo, banyan, and other species of ficus (Central and West Africa), carob-tree (North Coast), African mahogany (Guinea Coast), ebony (West Africa, Madagascar, Mauritius, etc.), camwood (Guinea Coast), African oak or teak (West Africa), cork-oak (Algeria and Tunis), stinkwood (chiefly Natal), sneezewood (South Africa), yellow-wood (South Africa), Australian wattles (introduced in the Union of South Africa etc.).

of South Africa, etc.).

or South Africa, etc.).

(5) Other vegetable products: Cotton (Egypt, West Africa, Madagascar, etc.), tobacco (Algeria, Central Africa, Transvaal, Madagascar, etc.), indigo (Equatorial Africa), rubber (forests of Guinea Coast and Congo districts), gum-arabic (Senegal, Sudan, etc.), gum-copal (especially East Africa), orchi (Equatorial Africa), alfa or esparto grass (North Coast lands), castorbeans (Senegal, etc.), papyrus (Nile valley, etc.), flax (Egypt and other northern lands).

Animal Products.—The African elephant is hunted for the sake of the ivory tusks. Elephants roamed over the whole of Africa until comparatively recent times. Civilization has gradually driven them farther and farther into the forests of the interior; they are still abundant in Central Africa and Uganda. Two kinds of African ivory are recognized in commerce: the milk-white soft ivory of animals that feed in the open dry woodlands and savannas, as of the Upper Nile and central lakes, and the hard ivory from those living in damp forests and marshy grasslands, as of the Niger and Congo. Soft ivory is less glassy and does not crack so easily. Ivory is also obtained from the hippopotamus. Ostrich feathers, hides, skins, and horns are other animal products of Africa.

Minerals.—Gold (Transvaal, Gold Coast, Madagascar, etc.), silver (Transvaal, etc.), copper (Cape Province, Southwest Africa, Madagascar, Algeria, Congo region, etc.), iron (South Africa, Abyssinia, Atlas region, Madagascar), zinc (Algeria, Tunis, Transvaal, etc.), tead (Tunis, Transvaal, etc.), tin (Swaziland, etc.), coal (South Africa, etc.), diamonds (Cape Province, especially Kimberley, Orange Free State, Transvaal), salt (Sahara, etc.), phosphates (Algeria, Tunis, etc.), petroleum (Algeria, Angola, Cape Province, Natal, etc.). Also antimony, quicksilver, plumbago, nickel, manganese, asbestos, mica, kaolin, nitrates, sulphur, marble, etc. ANIMAL PRODUCTS .- The African elephant is hunted for the sake of the

Animals.—Africa is the home of the largest living quadrupeds. The most characteristic animals are the elephant, one-humped camel, hippopotamus, rhinoceros, giraffe, okapi, gnu, antelope, zebra, quagga or wild ass, and baboon. Among the carnivorous animals are the lion, leopard, jackal, hyena, caracal, and civet-cat. The tiger is not found at all. The bear is found only in the Atlas regions.

Besides the swift ostrich that scours the plains, Africa possesses the large secretary bird, the ibis, flamingo, and numerous birds of brilliant plumage, such as parrots, kingfishers, and sunbirds.

Of insects, the locust is the proverbial scourge of Africa; while the ravages of white ants are almost incredible. The tsetse—a fly whose bite is fatal to cattle, horses, and dogs—is common in many parts of South and

fatal to cattle, horses, and dogs—is common in many parts of South and East Africa, and is one of the greatest obstacles to civilization. A closely related species (Glossina morsitans) is the carrier of the particular parasite which produces the sleeping sickness.

Among reptiles, the crocodile is much larger than the American cayman;

Among reptiles, the erocodile is much larger than the American cayman; but serpents are less common in Africa than in Asia or America.

PARTITION OF AFRICA.—During the last quarter of the nineteenth century there was a "scramble for Africa" by enterprising European powers, particularly Great Britain, France, Germany, and Italy. Protectorates and spheres of influence were established in all parts of Africa hitherto unattached by any European country. Large areas of the spheres assigned to different powers have still to be brought under European control; but this work is advancing rapidly.

(Places in Italics have been acquired since 1880.)

EUROPEAN DEPENOENCIES	CAPITAL	AREA (sq. miles)	POPULATION
British Egypt Anglo-Egyptian Sudan Somaliland East Africa Protectorate	Cairo Khartum Berbera Nairobi	400,000 1,000,000 68,000 182,000	12,000,000 2,000,000 300,000 4,000,000
Uganda Zanzibar Nyasaland British West Africa Rhodesia Bechuanaland Protectorate ¹	Entebbe Zanzibar Zomba Bathurst Saliabury	223,000 1,020 300,000 451,700 450,000	2,500,000 200,000 1,000,000 19,646,000 1,750,000 126,000
Swaziland Basutoland Upion of South Africa: Cape Province Natal	Mbabane Maseru Cape Town Pietermaritaburg	275,000 6,678 10,300 277,000	100,000
Transvaal Orange Free State Mauritius Seychelles	Pretoria Bloemfontein Port Louis Victoria	35,400 110,400 50,400 720 150	5,100,000 370,000 23,000
Ascension St. Helena	Georgetown Jamestowo	40 47	3,500
French		3,842,355	49,468,650
Algeria French Morocco Tunis French West Africa	Algiera Fez Tunis Dakar	221,947	5,563,828
French Equatorial Africa French East Africa: Madagascar Somali Coast	Brazzaville Tananarivo Jibuti	3,812,300	39,948,300
		4,034,247	45,512,128
German ² Togoland Kamerun German Southwest Africa German East Africa	Lome Buëa Wiodhoek Dar-es-Salam	33,659 295,000 322,348 384,079	1,000,000 3,500,000 120,000 7,546,000
		1,035,086	12,265,000
Portuguese Guinea Portuguese Guinea Portuguese West Africa (Angola) Portuguese East Africa (Mozambique) Cape Verde Islands	Bolama Loanda Mozambique & Lourenço Marques ^s Praia	14,000 484,000 293,860	400,000 4,119,000 3,120,000
São Thomé and Principe Islands	Praia São Thomé	793,777	7,834,000
Italian Eritrea	Asmara	45,800	450,000
Italian Somaliland Tripoli and Cyrenaica	Mogađisho Tripoli	139,430	450,000 723,000
		591,230	1,623,000
Spanish Spanish Guinea Rio de Oro and Adrar Fernando Po Spanish Morocco	Santa Isabel Villa Cianeroa Basile Tetuan	12,000 73,000 814 15,000	200,000 12,000 21,000
		100,814	233,000
Belgian			
Belgian Congo	Boma	913,127	15,000,000
Grand Totals .		11,310,636	131,935,778

¹Headquarters of the administration are in Majeking in the Cape Province. Francistown is the chief town in the north, and Gaberones in the south of the Protectorate.

The only independent states are Abyssinia and Liberia.

The German colonies were lost by Germany in the Great War. Alternately. For dates of acquisition and other particulars, see uoder the respective European countries.

ABYSSINIA (Sec Map, p. 55)

Abyssinia (the Ethiopia of ancient days) is an empire which occupies a portion of the highlands of northeast Africa. The country is volcanic and mountainous. It contains the sources of the Blue Nile and the Atbara. There are two seasons in the year, a dry winter and a rainy summer. The Abyssinians are Christians, and their kings claim descent from Menelek, the son of Solomon by the Queen of Sheba.

NATURAL PRODUCTIONS.—Abyssinia contains some mineral wealth; iron and coal are not uncommon, and gold is washed in various streams, while salt, saltpetre, and sulphur are also procurable. In the hotter districts, sugar cane, coffee, cotton, rubber, etc., flourish; in the middle zone, maize, wheat, barley, wild oranges and other fruit trees, tobacco, potatoes, etc., are cultivated; and above 9,000 feet are excellent pastures with some corn cultivation. Horses, mules, donkeys, oxen, goats, and sheep, and camels in the lowlands, form a large portion of the wealth of the people.

INOUSTRIES.—The principal pursuits are agriculture, cattle breeding, and hunting. The chief exports are coffee, civet, wax, hides, rubber, ivory, and gold.

and gold.

CAPITAL. - Adis Abeba. Population, about 50,000.

LIBERIA

(See Map, p. 55)

Liberia is a Negro republic on the coast of West Africa, lying between the French colony of the Ivory Coast on the east and Sierra Leone on the west, and between the French possessions in the interior and the sea. Liberia was founded in 1820 by the American Colonization Society for the settlement of freed slaves. Its independence is recognized by the United States and the Furnovan powers.

NATURAL PRODUCTIONS.—The development of Liberia is hindered by the laws prohibiting any but Liberian subjects from holding land. Until 1909 foreigners were forbidden to trade in the interior or anywhere except at the official ports of entry. The chief products are palm oil, coffee, rubber, and wory. Cotton is indigenous, but is not cultivated to any extent. There

are extensive forests in the interior, and much mineral wealth exists.

Ports.—There are fifteen ports of entry along the 350 miles of coast, viz.: Robertsport, Monrovia, Marshall, Grand Bassa, River Cess, Greensville, Nanna Kru, Harper, Half Cavalla, Jenne, Webo, Grand Cess, Garraway, Niffoo, and Batoo.

Capital.—Monrovia. Population (including Krutown) 6,000.

Chief Imports.—Cottons, haberdashery, salt, rice, provisions, arms, ammunition, tobacco, hardware, glass and earthenware, rum, gin, timber, and beads.

CHIEF EXPORTS.—Coffee, cocoa, palm kernels, palm oil, ivory, piassava,

rubber, and camwood.
Government.—The constitution is on the model of that of the United States. The President is elected for four years, the House of Representatives (14 members) for four years, and the Senate (9 members) for six years.

EGYPT

(See Map, p. 55)

Egypt is a British protectorate, by proclamation of December 18, 1914. From 1879 to 1883 the country was under the dual control of Great Britain and France; but in the latter year Great Britain intervened after Arabi Pasha's rebellion, and since then practically governed the country up to the time of the overthrow of the Turkish suzerainty.

the time of the overthrow of the Turkish suzerainty.

The total area of Egypt is estimated at 232,440,000 statute acres, of which about 7,000,000 acres are formed of the alluvium brought down by the Nile from the Abyssinian hills, the remainder being chiefly limestone desert.

IRRIGATION.—Egypt is called "the gift of the Nile." Without the Nile there would be no inhabitable country in this part of the continent, but thanks to that famous river Egypt is one of the most prosperous parts of Africa. Most of the land is irrigated by means of canals, which convey water from the Nile. There are two chief methods of irrigation, known as perennial irrigation and basin irrigation. The perennial system consists of deep canals containing water all the year round and enabling two or more crops to be grown. The basin system is quite different. The land is divided crops to be grown. The basin system is quite different. The land is divided into rectangular areas of varying size and surrounded by banks, between which the waters of the Nile are admitted during the flood season (August), and there retained for about forty days, when it is run off and seed is sown broadcast on the land.

broadcast on the land.

For irrigation purposes barrages have been built at Esna and Siut, and others in the Nile delta have been restored and improved; while a storage dam has been constructed at Assouan and a barrage built at Zifta. The increase in the value of the land owing to these labours is enormous, and some 2,000,000 acres have been added to the cultivable area.

NATURAL PRODUCTIONS.—(1) Agriculture. The principal products are cotton, cereals, and sugar, about two-thirds of the population being engaged in agriculture. The fellahin, or small cultivators, receive advances from the Agricultural Bank, the loans being limited to fifty per cent of the selling value of land on which the advance is made. The cultivated area can never extend beyond the region which is capable of being watered by the Nile.

Nile.
(2) Live stock. Cattle, buffaloes, horses, mules, donkeys, and drome-

daries are raised.

(3) Minerals. Building stone, clays, gypsum, gold, lead and zinc ores, manganese ores, natron, nitrate, petroleum, phosphate of lime, salt, and turquoise are produced on a commercial scale; and alum, copper ores, emeralds, granite, iron ores, nickel, ochres, ornamental stones, and sulphur are known to exist in more or less important quantities.

Manufactures.—There are some cotton mills in the delta for the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of the manufacture of

facture of rough calico; and in Upper Egypt are sugar, rice, and flour mills,

and a certain amount of pottery is made. Cigarette factories centre at Cairo and Alexandria; imported tobacco is mainly employed.

CHIEF CITIES AND INDUSTRIES OF EGYPT

CITY POP. IN THOUSAN		INDUSTRIES
ALEXANDRIA	406	(Chief seaport.) Cotton,
CAIRO	740	Cotton, paper, sugar, silk, saltpetre, gunpowder, leather.
DAMANHUR	47	Cotton, wool.
DAMIETTA	47 36	Fish, rice.
ISMAILIA	10	(Central station of the Suez Canal.)
Mansura	45	Linen, cotton.
MEDINET EL FAYUM	42 61	Agriculture,
PORT SAID	61	(Coaling station at north end of Suez Canal.) Cotton.
Suez	11	(Port at south end of Suez Canal.)
Siut	44	Pottery, ivory works, ornamental wood. (Noted for its fairs and festivals.)
TANTA	59	(Noted for its fairs and festivals.)
Zagazig	39	Cotton and grain centre, cotton factories.

CAPITAL.—Cairo. Population 740,000.

COMMERCE.—Trade is chiefly carried on with the following countries: Great Britain (the largest share), United States, British Colonies in the Far East, Italy, Greece, France, China, and Turkey.

CHIEF IMPORTS.—Textiles, metals and metal goods, coal, timber, hardware, cereals, vegetables, tobacco, etc.

CHIEF EXPORTS.—Cotton, cigarettes, sugar.

COMMUNICATIONS.—There are about 1,700 miles of state tailways (excluding the auxiliary railways of Upper Egypt and the Western Oases railway); there are 316 miles of light railways owned by public companies. There are 4,563 miles of telegraphs, with 12,000 miles of wire.

GOVERNMENT.—From 1841 to 1914 the governor of Egypt bore the title

GOVERNMENT.—From 1841 to 1914 the governor of Egypt bore the title of Khedive. On the establishment of the formal protectorate the ruler bears the title of Sultan. There is a Council of Ministers appointed by the Sultan, with a president who acts as prime minister. There is a Legislative Council consisting of the ministers, 66 elected members, and 17 nominated members. This body is mainly consultative, the legislative power resting with the Sultan and his ministers. members. This body is mainly owith the Sultan and his ministers.

SUEZ CANAL

The Suez Canal is the property of an Egyptian company, authorized by the Viceroy in 1856, and confirmed in 1866, the concession having been granted to the late M. de Lesseps for 99 years from November, 1869. The canal was opened in 1869. The length of the canal is 99 miles, 24 miles of which are natural lakes, with four miles of approach channels for the harbours; its width is 37 metres (121 feet 5 inches). The maximum draught of water allowed for vessels using the canal is 30 feet. The canal cost \$120,000,000 to construct and enlarge. Port Said is at the Mediterranean end of the canal and Suez at the Red Sea end.

By a convention, signed on October 29, 1888, the canal was exempted from blockade, and vessels of all nations, whether armed or not, are to be allowed to pass through it in peace or war. The management of the canal is entrusted to a council of 32 administrators, of whom ten are British (three representing the British Government and seven the ship-owning interest).

ANGLO-EGYPTIAN-SUDAN

(See Map. p. 55)

The Sudan has been jointly occupied by British and Egyptian forces since its reconquest by Lord Kitchener in 1898. It extends from the southern boundary of Egypt at 22°N. lat. to the northern shore of the Albert Nyanza at 2°19′N. lat., and reaches from the French Sahara to the northwest boundary of Eritrea, being about 1,400 miles from north to south and 1,200 miles from east to west at its extreme limits.

PRODUCTS AND INDUSTRIES.—About 2,500,000 acres are under cultivation. The chief crop is dura (African millet), which forms the staple food of the Sudanese. Wheat, barley, dates, lentils, beans, onions, and melons are also grown, and ground-nuts and sesame are produced for oil, while an excellent quality of cotton is also grown. Timber, gum, and rubber are obtained from the forests.

cellent quality of cotton is also grown. Timber, gum, and rubber are obtained from the forests.

The live stock includes camels, horses, cattle, sheep, goats, and asses, while ostrich farms are established in the central region.

Gold was once worked in large quantities and the mines of Um Nabardi have been reopened. Lignite, iron, and copper are known to exist, and the last two are worked by natives in the Bahr-el-Ghazal province.

Chief Towns.—Khartum, the capital (population, 23,000); Omdurman, the old Dervish capital (population, 60,000); Kassala (population, 10,000); Suakin (population, 12,000); El Obeid (population, 16,000); and Port Sudan.

Communications.—About 1,500 miles of railway are open for traffic. Since the opening of the eastern railway the Red Sea ports of Port Sudan and Suakin receive much of the trade which formerly passed northward. South of Khartum, communication is established by steamers and boats on the Blue and White Niles, Sobat and Bahr el Ghazal; and inland chiefly by camels and donkeys. by camels and donkeys.

BRITISH EAST AND CENTRAL AFRICA

(See Maps, pp. 55, 56)

The Germans obtained a footing on the mainland opposite Zanzibar between 1880 and 1885. In 1888 the Imperial British East Africa Company received a royal charter, having been granted a few years previously by the Sultan of Zanzibar administrative rights over his mainland possessions. In 1890 the respective spheres of Great Britain and Germany were settled by agreement, and Zanzibar became a British protectorate. The annexation by the French of the island of Madagascar places them in a

position of importance on the East Coast, although their influence does not extend to the mainland. The rivalry of European powers has resulted in the division of the territory on the East into "spheres of influence," the definition of whose boundaries has given rise to much diplomatic negotiation,

nition of whose boundaries has given rise to indent diplomate.

and is not yet finally completed.

The British dependencies in East and Central Africa consist of Somaliland, East Africa Protectorate, Uganda, Zanzibar, and Nyasaland.

SOMALILAND.—The Somaliland Protectorate forms the northeastern horn of the African continent. The chief town is Berbera (pop. 30,000). The imports are chiefly rice, dates, sugar, and textiles; the exports, hides and skips, sum and resins, ghee (clarified butter), cattle and sheep. Trans-

and skins, gum and resins, ghee (clarified butter), cattle and sheep. Transport is by camels; there are no porters.

EAST AFRICA PROTECTORATE.—The East Africa Protectorate includes the whole of the coast from the Umba to the Juba River, as also the vast territories in the interior bounded in part by international conventional lines. On the west the Protectorate adjoins that of Uganda. A great portion of this vast region consists of pasture lands or harren wastes but there are expense. this vast region consists of pasture lands or barren wastes, but there are extensive districts of great fertility on the coast, as well as in the interior.

Mombasa is the largest town (population, 30,000); Nairobi is the capital (population, 14,000). Mombasa possesses possibly the finest harbour on the east coast of Africa.

The chief products are ivory, grain, rubber, fibre, and copra. The chief imports are piece-goods, rice, grain and flour, building materials, European provisions, etc. The importation of arms and ammunition is prohibited, except under the most stringent regulations, and the introduction and local manufacture of spirits is also heavily checked. Communication with England is by the Union Castle Line via Suez Canal.

UGANDA.—The Uganda Protectorate lies between the Belgian Congo on the west and the East Africa Protectorate on the east. The native capital of the country is Mengo Kampala, but the headquarters of the administra-

UGANDA.—The Uganda Protectorate lies between the Belgian Congo on the west and the East Africa Protectorate on the east. The native capital of the country is Mengo Kampala, but the headquarters of the administration is at Entebbe on the shores of Lake Victoria Nyanza.

The chief products are cotton, coffee, skins, cotton seed, rubber, and ivory. Iron ore abounds, and wheat grows well. The chief imports are yarns and textiles, provisions, hardware, railway materials, agricultural implements, and machinery.

The so-called Uganda Railway lies wholly in the East Africa Protectorate. It runs from Mombasa, on the coast, to Port Florence, on the northeast corner of the Victoria Nyanza, a distance of 584 miles. Motor transport is increasing with the development of the country.

Zanzibar.—The Zanzibar Protectorate consists of the island of Zanzibar and the island of Pemba. The capital is Zanzibar (population, 35,000), which has a fine roadstead. The legal status of slavery was abolished in April, 1897, and domestic slavery in 1908.

The products are mainly cloves (92 per cent of the entire clove crop of the world), ivory, copra, rice, groceries, and coal.

There is direct communication with the United Kingdom by the Union Castle, and also a monthly cargo service by the British Steam Navigation Company. There are through steamers to and from Europe by the Messageries Maritimes and the Societa Nazionale de Servizi Marittimi, and a three-weekly service to and from Bombay by the latter company.

Nyasaland.—The Nyasaland Protectorate forms the eastern portion of British Central Africa. The chief products are cotton, tobacco, chillies, coffee, ground-nuts, maize, wheat, rubber, and fibre. The cultivation and export of cotton and tobacco are extensive. Ivory and tea are also exported. The chief imports are soft goods, provisions, and hardware. The chief towns are Zomba, the capital, and Blantyre (population, 8,500).

Communication is maintained between Port Herald and Chinde, situated in Portuguese territory at the mouth of th

BRITISH WEST AFRICA

(See Map, p. 55)

The West Coast of Africa has been eagerly frequented by European traders since it was first explored by the Portuguese in the latter part of the fifteenth century, just before the discovery of America by Columbus. In the seventeenth century all the chief maritime nations of Europe, except the Spaniards, had forts or factories established on the coast, from which they supplied slaves to their plantations in the West Indies and on the mainland of America. The importance of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the company of the coast was much diminished at the coast was much diminished at the coast was much diminished at the coast was much diminished at the coast was much diminished at the coast was much diminished at the coast was much diminishe mencement of the nineteenth century, when the slave trade was suppressed, and the Dutch and the Danes relinquished their possessions; but a healthier interest in the West Coast has since arisen in the development of a legitimate trade in tropical products.

mate trade in the West Coast has since arisen in the development of a legitimate trade in tropical products.

The British dependencies consist of Gambia, the Gold Coast (including Ashanti and the Northern Territories), Sierra Leone, and Nigeria.

GAMBIA.—Gambia is the most northerly and the oldest British settlement on the coast of West Africa. The colony consists of St. Mary's Island, British Kombo, and various other islands and territories on the banks of the river Gambia. The area of the colony proper is four square miles, and of the protectorate 4,500 square miles. Bathurst, the capital (population, 9,000), is on St. Mary's Island. The chief products are ground-nuts (which form 70 per cent of the total exports), beeswax, palm kernels, hides, and calabashes. The ground-nuts are sent chiefly to Marseilles, where the oil is extracted and used for the same purpose as olive oil. Small quantities of cotton, rice, maize, and kous (a kind of millet) are produced in the districts bordering the Gambia. The chief imports are cotton goods, kola-nuts, rice, spirits, hardware, soap, sugar, wine, and tobacco.

Gold Coast.—The Gold Coast Colony and Protectorate is bounded on the east by Togoland and on the west and north by the French colonies of the Ivory Coast and French Sudan. The territories in the hinterland to the north of Ashanti were made a separate district in 1897 under the name of the Northern Territories. The dependency of Ashanti lies inland, at the

of the Northern Territories. The dependency of Ashanti lies inland, at the

back of the central portion of the colony. The chief products are palm oil, palm kernels, rubber, cocoa, timber, gold, etc. The country is rich as regards both minerals and agriculture. The chief imports are textiles, hardware, and alcohol. Trade is principally with the United Kingdom.

The chief towns are: Akkra, the capital (population, 20,000), Kumassi (population, 19,000), Cape Coast Castle (population, 11,000), Sekondi (population, 9,000).

SIERRA LEONE.—The colony of Sierra Leone on the west African coast was used toward the end of the eighteenth century as an asylum for the many

was used roward the end of the eighteenth century as an asylum for the many destitute Negroes then in Great Britain. Later the colony was used as a settlement for Africans from North America and the West Indies, and large numbers of Africans rescued from slave-ships have from time to time been liberated and settled there.

liberated and settled there.

The chief products are palm oil, palm kernels, kola-nuts, hides, piassava, and ginger. The chief imports are cotton goods, coal, hardware, provisions, apparel, and tobacco. Freetown, the capital (population, 34,000), has the finest and most important harbour in West Africa.

NIGERIA.—The Colony and Protectorate of Nigeria is situated between Dahomey on the west and the Kameruns on the east. The Protectorate is in two main divisions, the Northern Provinces which coincide with the former protectorate of Northern Nigeria, and the Southern Provinces, which coincide with the former protectorate of Southern Nigeria.

The country is very fertile, and agriculture is the chief industry, the crops consisting of cotton, ground-nuts, maize, rice, guinea-corn, yams, cassava, and tobacco. The exports consist of palm oil and kernels, gumcopal, rubber, mahogany, hides, skins, and ground-nuts. Tin mining is carried on in the Northern provinces. Coal is also worked. The chief imports are cotton goods, hardware, cutlery, bicycles, kerosene, provisions, spirits, tobacco, soap, haberdashery, and building material. Slave dealing is now practically non-existent. The principal ports are Lagos, the capital (population with suburbs, 102,000), Warri, and Forcados.

RHODESIA

(See Map, p. 56)

In 1889 a royal charter was granted to the British South Africa Company, conferring upon it large administrative powers in the region north of the

conferring upon it large administrative powers in the region north of the Transvaal, now known as Rhodesia, named after the great South African administrator Cecil John Rhodes (1855-1902). The company was authorized to promote trade and to work mineral and other concessions in those regions. Rhodesia is divided into two portions by the river Zambezi.

Northern Rhodesia,—A considerable portion of Northern Rhodesia was first opened to British influence by Livingstone. This territory is partly occupied by native tribes living under their own chiefs, but large tracts are being opened up for European settlement. Nearly 1,000,000 acres are under settlement by whites, who are chiefly engaged in stock raising. There are large herds of native cattle. Game is also abundant. The country is well wooded and well watered. Considerable mineral deposits, especially copper, have been found. Indigenous rubber is also found in large areas.

Southern Rhodesia.—Southern Rhodesia includes the two provinces of Matabeleland and Mashonaland, and lies between the northern boundary of the Transvaal on the south and the Zambezi on the north, with Portuguese The climate is well suited for Europeans, and for East Africa on the east. the cultivation of European fruit trees, cereals, and vegetables, besides tobacco, and the indigenous products of the country. Southern Rhodesia is rich in minerals, and abounds in traces of the ancient gold-workers. Gold, silver, copper, coal, lead, diamonds, asbestos, chromite, and other minerals are produced in considerable quantities.

Salisbury (white population, 4,000) is the seat of government, and is situated on the Mashonaland plateau, 4,880 feet above sea level. Bulawayo (white population 5,300) is the largest town in Matabeleland, and is 4,469 feet above sea level.

The railway running northeastward from Cape Town, which it is hoped will become the "Cape-to-Cairo" line, already crosses Rhodesia, and extends well into the Belgian Congo.

BECHUANALAND PROTECTORATE

(See Map, p. 56)

The Bechuanaland Protectorate extends from the Molopo River in the south to the Zambezi in the north, and is bounded on the east by the Transvaal and Matabeleland and on the west by Southwest Africa. The country south to the Zambezi in the north, and is bounded on the east by the Transvaal and Matabeleland and on the west by Southwest Africa. The country is pastoral, although when the rainfall is adequate crops of Kaffir corn and mealies (maize) are raised. Large numbers of cartle also are reared. The railway from Kimberley to Vryburg and Mafeking crosses the protectorate on its way to Rhodesia. The chief European centres are Gaberones, Francistown, and Serowe. The headquarters of the British administration are at Mafeking, Cape Province.

SWAZILAND

(See Map, p. 56)

The Swaziland Protectorate is bounded on the north and west by the Transvaal, on the south by Natal, and on the east by Natal and Portuguese East Africa. In 1894 Swaziland was placed under the administration of, but not incorporated with, the South African Republic; the British Government now controls the territory.

The agricultural products are maize, millet, ground-nuts, beans, pumpkins, and sweet poratoes, grown only in sufficient quantities for local supply. Tobacco is grown in parts, and experiments in cotton growing have been successful. Alluvial tin and gold are mined. Cattle-ranching on a large scale has been begun by several companies. *Mbabane*, the headquarters of the administration, is the only town in the protectorate.

BASUTOLAND (See Map, p. 56)

The British territory of Basutoland lies between Natal, Orange Free State Province, and Cape Province. Basutoland is one of the best grain-producing districts in South Africa, while the abundant grass enables immense herds of cattle to be raised. Most of the country is mountainous and rugged. The chief exports are grain, cattle, horses, and wool; the imports are mainly hardware, groceries, and blankets. Maseru is the capital (population 1400) (population, 1,300).

UNION OF SOUTH AFRICA

(See Map, p. 56)

The Cape of Good Hope was discovered in 1486 by Bartholomew Diaz, the commander of one of the many expeditions sent out by successive kings of Portugal to discover an ocean route to India. Diaz merely doubled the Cape and returned home. Eleven years later, in 1497, Vasco da Gama not only doubled the Cape and landed in what is now Natal, but successfully accomplished the voyage to India. The Portuguese, however, did not make any permanent settlement at the Cape, although it was used by their vessels, and subsequently also by those of England and Holland, as a place of call in going to and from the East Indies. In 1652 the Netherlands' East India Company took possession of the shores of Table Bay, established a fort, and occupied the adjacent lands, in order to be always ready with supplies for their ships passing. In 1814 the Cape was formally ceded to the British Crown. the British Crown.

the British Crown.

COMMUNICATIONS.—On the establishment of the Union in 1910, the state railways of the respective colonies were merged into one system, the South African Railways, under the control of the Union government. The total open mileage is 8,924 miles (comprising Cape Province 3,964, Orange Free State 1,265, Transvaal 2,492, and Natal 1,203), of which 8,404 miles are 3 feet 6 inches gauge and 520 miles 2 feet gauge. There are 16,000 miles of telegraph line and about 5,000 miles of telephone line.

The following British steamship lines call at the Cape: Aberdeen Line, Bucknall Steamship Lines, Clan Line, Harrison Line, Houston Line, Natal Line, New Zealand Shipping Company, Shaw, Savill & Albion Line, Union-Castle Line, and White Star Line.

GOVERNMENT.—By the South Africa Act, 1000, the self-governing colonies

Castle Line, and White Star Line.

Government.—By the South Africa Act, 1909, the self-governing colonies of the Cape of Good Hope, Natal, the Transvaal, and the Orange River Colony were united on May 31, 1910, in a legislative Union under one government under the name of the Union of South Africa, those colonies becoming provinces of the Union under the names of the Cape of Good Hope, Natal, the Transvaal, and the Orange Free State respectively. The governor-general of the Union is appointed by the king. There is an Executive Council to advise the governor-general in the government of the Union. The legislature consists of two houses, a Senate and a House of Assembly. Pretoria is the seat of the government: Gape Town is the seat of the legislature.

lature consists of two houses, a Senate and a House of Assembly. Pretoria is the seat of the government; Cape Town is the seat of the legislature.

CAPE OF GOOD HOPE.—The Province of the Cape of Good Hope, or Cape Province, as it is more commonly called, occupies the extreme southern portion of Africa. The natural products are wheat and other cereals, wool, and extensive vineyards. The breeding of horses, cattle, sheep, and ostriches is carried on. The chief minerals worked are copper, coal, and gold. The principal diamond fields are centered at Kimberley. The chief exports are gold, diamonds, wool, ostrich feathers, mohair, hides and skins, copper ore, and aloes. The chief trade is with the United Kingdom; among foreign countries the greatest supply of imports comes from the United States. Before the Great War Germany came next. The imports consist chiefly of food and drink, machinery, textiles, hardware, iron and steel, apparel, agricultural implements, electrical fittings, chemicals, drugs, arms and ammunition.

drink, machinery, textiles, hardware, iron and steel, apparel, agricultural implements, electrical fittings, chemicals, drugs, arms and ammunition.

Cape Town is the capital (population, 67,000 with suburbs, 150,000). Cape Town is 5,979 miles from Southampton, England; transit, sixteen days. NATAL.—The Province of Natal derives its name from the fact of its discovery on Christmas Day, 1497, by the celebrated Portuguese navigator, Vasco da Gama. The first European settlement was formed in 1824 by a small parry of Englishmen, who came by sea and established themselves on the coast where Durban now stands. Natal was then a part of the Zulu kingdom. Between 1835 and 1837 another settlement was formed by a large body of Dutch Boers, who came with their wagons overland from Cape Colony and settled in the northern districts where to this day the Boers preponderate. In 1843 Natal was proclaimed as British and annexed to Cape Colony. In 1856 it was made a separate colony, and in 1893 acquired a responsible government.

The race question in Natal is complicated by the presence of large num-

Cape Colony. In 1856 it was made a separate colony, and in 1893 acquired a responsible government.

The race question in Natal is complicated by the presence of large numbers of East Indian subjects of the Crown, brought over during the latter half of the nineteenth century to supply the deficiency of local labour.

The chief products are wool, fruit, cereals, wattle bark, coal (a rapidly growing industry), iron, gold, and sugar. Pietermaritaburg is the capital (population, 30,000). The city stands about 54 miles inland from Durban.

Transvaal.—The Transvaal was formed as the South African Republic by parties of Dutch Boers from the English colonies, who "trekked" into the interior of the continent and wrested the land across the Vaal River from the native chiefs. The discovery of the gold fields within its borders led to the settlement of large numbers of foreigners, and eventually to hostilities with the British Government. A war of nearly three years' duration (1899–1902) was fought with great tenacity, and its close was marked by the inclusion of the South African Republic within the British Empire, "responsible government" being granted almost immediately.

The Transvaal offers great facilities for agriculture and stock-raising. Coal of fair quality is found. Gold mining, however, is the chief source of wealth. The chief exports are gold, cattle, hides, wool, grain, and ostrich feathers. Pretoria is the capital (population, 49,000). The principal town is Johannesburg, the centre of the Witwatersrand goldfields; population, 237,000 (white 120,000, coloured 117,000).

Orange Free State.—The Orange Free State was founded, in much the same way as the Transvaal, by Boer emigrants from Cape Colony, and

its independence was granted in 1854. Its subsequent history is identical

with that of the Transvaal.

The country is not well suited for agriculture, but good grazing is afforded by the rolling plains, and stock and sheep farming are extensively carried on. Coal is abundant in the north of the province. *Bloemfontein* is the capital; population, 27,000 (white 15,000, coloured 12,000).

CHIEF CITIES AND INDUSTRIES OF THE UNION

сіту	POP. IN THOUSANOS	INOUSTRIES
Cape Province CAPE TOWN* EAST LONDON GRAHAM'S TOWN KIMBERLEY KING WILLIAM'S TOWN PAARL PORT ELIZABETH Natal PIETERMARITZBURG* DURBAN	67 21 14 30 9 11 31	Wool, wine. Wool, ostrich plumes. Ostrich farming. Centre of diamond industry. Sweets and jams, candles, soap, matches, wool, leather and hides. Wine, brandy, wagons, carriages, granite. Jam and confectionery works, oil, candle and explosive works, saw-mills, flour-mills, tanoeries. Brickmaking, tanning, and brewing. (Principal seaport of Natal.) Railway works.
Transvaal PRETORIA* JOHANNESBURG Orange Free State BLOEMFONTEIN* HARRISMITH JAGERSFONTEIN	49 237 27 7 9	Wool, hides, cattle, grain. Gold-mining, brewing, printing, flour-mills, iron and brass founding, tobacco. Agricultural centre. Wool, hides. Diamonds.

*Capital of state.

†With suburbs, 90.

FRENCH DEPENDENCIES

(See Maps, pp. 55, 56)

The French possessions in Africa are considerable. In the north are Algeria and Tunis; while Morocco is now predominantly French. Among the chief products of Morocco are cereals, hemp, oil, and such fruits as the fig, almonds, pomegranate, lemon, orange, olive, and date.

The French have extended their rule southward over the greater part of the western Sahara and much of the Sudanese savanna lands, reaching the

Guinea coast at several points; in the Congo region the French dominions

extend south of the equator.

Madagascar was conquered by the French in 1895, and made a French colony in the following year. Cattle herding and agriculture are the chief occupations. The island has rich deposits of gold, copper, iron, and lead, and extensive forests of valuable timber. The exports of Madagascar consist of rice, cattle, hides, gum, rubber, wax, sugar, cotton, raffia, and coffee. The capital is Tananarivo (population, 95,000). Tanatave is the chief port.

PORTUGUESE DEPENDENCIES

(See Maps, pp. 55, 56)

The Portuguese were the pioneers of European civilization in Africa. To-day their possessions in West Africa consist of Angola and Kabinda; the chief town Loanda (population, 20,000) is one of the few good ports on the west African coast. A small portion of the Guinea coast is Portuguese. Portuguese East Africa consists of the two districts of Lourenço Marques and Mozambique, which are separated from one another by the river Zambezi, and the smaller districts of Inhambane, Gaza, and Tetc. The chief products are ore, sugar, ivory, rubber, and wax. The chief ports are Mozambique (population, 8,000), Quilimane (population, 6,000), Chinde (population, 2,000), Beira (population, 4,000), and Lourenço Marques (population, 10,000). lation, 10,000).

ITALIAN DEPENDENCIES

(See Map, p. 55)

Italian enterprise in Africa falls within our own times. On the Red Sea the colony of Eritrea consists of a triangular portion of sandy lowland, with a coast-line of about 700 miles. The capital is Asmara, near which are gold mines. The chief port is Massaua, which has a good harbour; pearl fishing is carried on here. Salt is the principal product, and is of great value as being the monetary currency of southern Abyssinia.

Italian Somaliland extends along the east coast from British Somaliland to the course of the Juba. Cattle rearing is the chief occupation. Mogadisho is the headquarters of the administration.

The territories of *Tripoli* and *Cyrenaica* were acquired in 1912 by conquest and cession from the Ottoman Empire. The chief products are esparto fibre, hides and skins, ostrich feathers, and sponges. About one-fourth of the trade is with the Sudan by caravans. The capital is *Tripoli* (population, 30,000).

SPANISH DEPENDENCIES

(See Map, p. 55)

The Spanish colonies, exclusive of the Canary Islands and Ceuta, etc., which form an integral part of the kingdom, consist of certain settlements and islands of western Africa.

Fernando Po in the Bight of Biafra is a mountainous island with forests of

Fernando Po in the Bight of Biatra is a mountainous island with forests of oil-palm, ebony, mahogany, and oak. Its chief products are sugar, cotton, indigo, cocoa, coffee, tobacco, vanilla, and kola-nut. The capital is Basile. Spanish Guinea, or the Muni River Settlements, is on the coast between Kamerun and French Congo. Cocoa, coffee, and bananas are cultivated, and palm oil, palm kernels, rubber, and other forest produce is exported. Rio de Oro and Adrar, on the northwest coast of Africa, is part of the waterless Sahara, sparsely populated by wandering Arabs. Cattle, sheep, and camels are bred where vegetation permits. There are valuable fisheries off the coast.

eries off the coast.

The Spanish "presidios," or fortified settlements, on the Moroccan seaboard are no longer used as convict settlements. The Spanish zone in Morocco was defined in the Franco-Spanish treaty of Madrid (November 27, 1912). Tangier and its district (about 140 square miles) is excluded from the Spanish zone and is internationalized.

> BELGIAN CONGO (See Maps, pp. 55, 56)

The Congo Free State, as it was formerly called, was founded in 1882 by King Leopold II. of Belgium and bequeathed to the Belgian Government,

passing into the hands of the latter in 1908. The transfer was not recognized by Great Britain until 1913, on account of forced labour and other irregularities existing under the former regime.

The exports from the Belgian Congo consist chiefly of rubber, palm kernels, palm oil, and ivory. The coffee plant and cotton grow wild, and coffee, cacao, and tobacco have been planted with success. The area is estimated at about 900,000 square miles; the native population at about 15,000,000. A terrible disease, called "sleeping sickness," has of late years made increasing ravages upon the native population and threatens to depopulate large districts, especially along the banks of the Congo River and its principal tributaries. and its principal tributaries.

ASIA

(See Maps, pp. 57-70)

THE CRADLE OF MANKIND.—Asia is generally regarded as the cradle of the human race. It is the birthplace of the great religions of the world-the Jewish, the Hindu, the Buddhist, the Zoroastrian, the Christian, and the Mohammedan. Next to Egypt Asia possesses the oldest historical monuments in the world. The Old Testament contains the earliest historical records which we have of any nation in the form of distinct narrative. The period at which Moses wrote was probably 1,500 or 1,600 years before Christ. In China authentic history goes back to about 1,000 B. C., with a long preceding period of which the names of dynasties are preserved without chronological arrangement. In regard to the history of the ancient kingdoms of Assyria, Babylonia, Media, and Persia, much light has been obtained from the decipherment of cuneiform inscriptions. The Persians, the Romans, the Arabians, and the Mongols each in turn have dominated a large part of Asia.

The discovery by the Portuguese of the passage to India by way of the Cape of Good Hope led to their establishment on the coast of the peninsula in 1498. The Portuguese were speedily followed by the Spanish, Dutch, French, and British. The struggle between the two last powers for supremacy in India was completed by the conquest of the principal French settlements (1760-1765).

The forms of government in Asia at the present time range from the primitive rule of the nomad sheik to the republic of China. India has been brought by Great Britain directly under European influence, while Japan and to a lesser extent China are also modelling their institutions on those

RACES OF ASIA.—The inhabitants of Asia belong mostly to two great races: the Mongolian or Yellow type, and the Caucasic or Fair type. The Mongolian type is the most numerously represented, and includes two-thirds of the whole population of the continent. The Mongolians may be divided into two groups: (1) those speaking polysyllabic languages, including the various Finno-Tatar and Turki-Tatar races of north and central Asia, the true Mongolians, and the Manchus, all of whom may be grouped as Ural-Altai Mongols, and are to be distinguished from the Koreans and the Japanese. (2) Those speaking the so-called monosyllabic languages, including Chinese, Tibetans, Burmese, Siamese, and Annamese, and various hill tribes of the

The Fair type is represented in Asia by the Semitic peoples of Syria and Arabia, the numerous tribes of the Caucasus, the Slavonic people of Asiatic Russia, and the Aryan inhabitants of Persia and northern India.

The Black type is represented in the south by the Dravidians of southern India and Ceylon, and by the Negritos of the Malay Peninsula and Archipelago.

MODERN JERUSALEM

For many centuries Jerusalem has been what it will long remain—the Holy City. To the Jew it is the city of David and Solomon, to the Christian the city where our Lord was crucified, to the Mohammedan also a city hallowed by many traditions, and by the memory of its conquest by Omar and Saladin. The city may be still described in the words of the Psalmist: "Jerusalem is builded as a city that is compact together; whither the tribes go up" (Psalm cxxii, 3).

The location of the city has been changed, or rather it occupies but a part of the ground covered by the Jerusalem of Herod and his immediate successors. The old city, including the Mosque area, covers only 2001/2 acres. At the time of its greatest importance it must have embraced within its walls nearly three times as much territory, and, judging from the estimates of its population at that time, the houses must have been even more closely built than now. That they are close enough at present no one who has examined them will question, and yet there are several quite good-sized pieces of vacant land. The houses are generally poor and patched, and have a mottled and ancient appearance. The mottled aspect is due to the fact that the stones composing the walls have done previous duty in buildings or walls that have fallen before the besieger. The ancient look is genuine; they are old; some of them were quarried thousands of years ago. Many of the interior walls are supported by props stretching overhead across the narrow streets and braced against some stronger wall. They have an ominous "bulge," which means that some of these days they are going to spill out over the street in spite of their supports. The wonder is how some of them resist the law of gravitation even now. There are old arches in every part of the city which have some mysterious way of keeping up, when from all appearance they ought to fall immediately. The crowds pass and repass, however, unconscious of their danger.1

Many scenes in modern Jerusalem rise before me in recalling the times when I lived within the walls, writes Colonel Conder, and passed so many days in the Temple enclosure, or in that grim church, defiled with blood, which some among us are glad to think of as not marking the new sepulchre without the city where the Prince of Peace was

laid. But two scenes especially come back to mind.

The first is that of the sleeping town before the gates were opened to admit the peasant women and their donkeyloads of cakes and vegetables. In the purple gloom the domes are beginning to shine, wet with the heavy dew, as the light spreads behind Olivet "as far as Hebron"—to quote The silence is broken suddenly by the musical the Mishnah. cry of the Muedhdhin2 on the minaret of a mosque—a long, rolling, and tremulous note, echoing all over Jerusalem, as he "testifies there is no God but God," and calls to the faithful that "prayer is better than sleep." The simple dignity of Islâm contrasts with the superstition, the hurried services, the tawdry magnificence of degraded Eastern churches, and

¹E. S. Wallace. "Jerusalem the Holy" '1898). Muezzin, a Mohammedan crier of the hour of prayer.

we understand how it was that the reformed faith of Mu-

hammad conquered Asia.

The second scene is that of the summer noon, which presents to us an epitome of the long history of the Holy City. The great Herodian tower of the upper city glares with tawny stone against the blue sky. The rough cobbles of the slippery market-place are crowded with chattering peasants. A few pious Moslems, unconscious of the world, are praying with their faces toward Mecca on the steps of the Protestant bishop's palace, where the town dogs also lie in summer, but go down to the covered bazaar when the winter rains and snow begin. The Armenian patriarch is being escorted, from St. James on Sion to the Holy Sepulchre, by a modest procession. A Moslem bier passes by, and men crowd round it to lend their shoulders for a few steps as a pious act. The little Pharisee, with his lovelocks and dirty gaberdine—or resplendent in his fur cap on the Sabbath, just as Rembrandt drew his fathers—is jostled in the narrow street of David, yet holds his fingers on the pulses of the city life. Above the cries of the water-seller and the chinking of the brass sherbet-cups, the screams of women and the jangling of the metal plates that serve for bells in churches, rises one recurrent note from the blind beggar who wanders through the streets, forever calling aloud to the "everlasting God." We might almost expect to see a Templar ride by, with his white gown and blood-red cross over the mail coat, or the page of some Frankish noble in stripes of yellow and crimson. But instead we witness the long procession of half-naked Dervish fanatics, with banners, on their way to the Haram, and then to the "tomb of Moses" west of Jericho. They bear spears and swords, and are preceded by jesters with fox-tails or by a convict who has been tarred and covered with cotton wool—ancient survivals of pagan Saturnalia. The Jew, the Greek, the Copt, the Georgian, the Armenian, the Arab, and the Turk mingle with the modern European and with the Franciscan monk from Italy in the narrow lane; and black-veiled ladies, with white Damascene asses, are led to the shops, or to the lower fruitmarket which glows with colour, its green and gold contrasting with the violet or rich brown robes of the merchants. The whole history of Jerusalem is represented by its crowd to-day.1

RIDING DOWN EAGLES ON THE PAMIRS

We are now in what is known as the Syrt country, writes Colonel Younghusband. There was no particular road, but the tracks of animals. We had brought a Kirghiz with us to show us the way, but he now refused to do so, and eventually left us stranded in the midst of a series of bare, low hills and sterile plains, without apparently any water, or any inhabitants, or any special road. We knew, too, that what people we should meet had not a good reputation, and were said to rob and murder travellers occasionally, and matters looked unpleasant. We pushed on, however, in the general direction of Kashgar, and toward evening, after a very hard march, reached an encampment of six tents. The owner of the one we applied to was very surly, but eventually agreed to give us accommodation for the night.

As we entered the tent, I was startled on seeing a huge, fierce-looking eagle tied by the leg just by the door. From all appearances, it would require very little provocation to cause it to fly at one, and I was relieved when I found myself safely past it. It was one of the eagles which the people of the part keep for hawking purposes, and with these they secure even small deer. I never saw them at this sport, but I recollect some years afterward, on the Pamirs, seeing a Kirghiz catch an eagle for this purpose by riding it down. When I first saw the man starting off to gallop down an eagle, I thought he must be mad. We had seen two eagles on the ground in the distance, and as soon as the Kirghiz caught sight of them he set off wildly after them. They, of course,

rose on seeing him, but he went careering down the valley after one of them till gradually the bird sank down to the ground. It was, in fact, gorged with the flesh of the carcase it had been feeding on, and could no longer fly. The Kirghiz dismounted, seized hold of the bird, bound his waist-cloth round and round the body and wings till he had made it up into a neat parcel, and then tucked it under his arm, mounted, and rode back to me. He said that, if it turned out to be a good one for hawking, he might get two hundred rupees [about \$66] for it.¹

A ROBBER'S STRONGHOLD IN CENTRAL ASIA

We retraced our steps to the junction of the Shimshal River, and ascended the valley through which it flows. Up this valley, at five miles from its junction with the Oprang, is a Kanjuti outpost called Darwaza, or "the gate." It was from this place that the raiders started on their expeditions, and as we ascended the wild, narrow mountain valley in which it is situated, we wondered what sort of reception we should meet with from these robber bands.

Rounding a spur, we saw in the distance a tower erected on the top of a cliff, and approaching nearer we saw that the whole line of the cliff, where it was at all accessible, was covered by a loop-hole wall, at the upper end of which was a second tower. The cliff formed the bank of a deep ravine, which cut transversely across the main valley. Looking up the valley on the right was the unfordable Shimshal River; on the left were precipitous mountains, and in front this deep ravine. The only possible way up the valley was by a difficult zigzag path up the side of this ravine, and that was guarded by the two towers. Some smoke was curling up from these towers, so we knew that they were tenanted, and the exciting moment had now arrived when we should have to beard these raiders in their very den.

I carefully reconnoitred the position with my field-glasses, so as to be able to decide on our best plan of action in case of a hostile reception. The path zigzagged down one side of the ravine, which was about two hundred feet deep, and up the other, and passed immediately under the wall and through a gateway in the tower. It would have been impossible to effect an entrance if the Kanjutis chose to be hostile, for even if they did not fire at us, they could have annihilated us by hurling down stones. I thought, therefore, that my best plan would be not to commit my whole party to such a risk, but to go on with an interpreter, and leave the Gurkhas on the top of the cliff on our side of the ravine, to cover the

retreat in case the Kanjutis proved hostile. .

We had descended to the bottom of the ravine, and climbed halfway up the opposite bank. The door through the tower was still open, and no one could be seen about, when suddenly the door was banged, the wall was manned by wild-looking Kanjutis, shouting and waving us back, and pointing their matchlocks at us. We were not fifty feet from them, and I expected at any moment to have bullets and stones whizzing about our ears; so I halted and beckoned to them, holding up one finger and signing to them in this way to send one man down to us. Gradually the hubbub ceased; they still kept their matchlocks pointed at us, but the door was opened and two men came down to us. We had a long parley together, and I told them who I was, that I was coming to visit their chief, and that Captain Durand had already spoken to Safder Ali about my coming. They said they had heard of this, but they wished to make quite sure that I had not an army with me, so I sent them to count for themselves exactly how many men I had. The Gurkhas then joined me, and we passed through the tower together; but just at the entrance, which was lined with Kanjutis in a double row, a man rushed at my pony and seized the bridle. I thought for a moment there was treachery. The Gurkhas sprang forward, and in half a second there would have been a scrimmage, when the man let go, and laughed, and said he had only intended it as a joke. . . . We stood together for a long time round the fire, a curious

¹Col. C. R. Conder, "The City of Jerusalem" (1909).

¹F. E. Younghusband, "The Heart of a Continent" (1896).

group-rough, hard, determined-looking Kanjutis, in long, loose woollen robes, round cloth caps, long curls hanging down their ears, matchlocks slung over their backs, and swords bound to their sides; the timid, red-faced Kirghiz; the Tatar-featured Ladakis; the patient, long-suffering Baltis; the sturdy, jovial little Gurkhas; the grave Pathan, and a solitary Englishman, met together here, in the very heart of the Himalayas, in the robbers' stronghold. It is on thinking over occasions like this that one realizes the extraordinary influence of the European in Asia, and marvels at his power of rolling on one race upon another to serve his purpose. An Asiatic and a European fight, the former is beaten, and he immediately joins the European to subdue some other Asiatic.1

THE WILD YAK OF TIBET

An exceptionally large herd of vaks was grazing at the foot of the rocks on our right, recounts Sven Hedin. Islam rode toward them and took a shot at them. Thereupon the herd divided, the greater part fleeing up the mountains, while the others, nearly fifty of them in a tightly packed drove, made straight toward me and Emin Mirza.

We were alone and without weapons, and felt we were in a pretty tight fix, for the animals seemed to be charging directly down upon us. The leader of the herd was a well-shaped bull; after him a little calf and five old bulls walloped along as hard as they could put feet to ground; while the rear was brought up by Islam on horseback. The yaks were enveloped in a perfect cloud of dust. We could distinctly hear the cracking of their hoofs, and were blindly conscious that in another second or two we should be crushed under the avalanche of their irresistible onrush. It appeared, however, that they had not yet observed us; for no sooner did the leader become aware of us, which he did at about a hundred paces distance, than he swerved aside, and was instantly followed by the entire battalion. This gave Islam his opportunity. He hastily dismounted and placed himself in ambush, and fired at a venture right in the middle of the troop. The bullet struck a bull in the foreleg; then the animal, mad with fury, charged straight upon the sportsman. Islam flung himself into the saddle, and set off as fast as his enfeebled horse was able to gallop. The yak, however, although running on only three legs, caught him up after two or three minutes' chase; but just as he was on the point of tossing horse and rider on his horns, Islam, who saw the danger he was in, turned in his saddle and took aim. But he was so excited he could not aim with the cool deliberation that so perilous a moment demanded. However, the yak was so close to him that it was scarcely possible to miss; luckily, the bullet penetrated in the region of the heart, and thus put an end to the contest.

The yak was a bull about eight years old. The tongue and meat were especially welcome, since our supplies of rice and flour were fast running out. If Islam's last shot had failed he would infallibly have been lost. The chase of the wild yak is perilous, and it does not always have such a happy ending as this.²

BOMBAY, A CITY OF CONTRASTS

The first sight of India is amazing, entrancing, stupefying. Of other countries you become aware gradually: Italy leads up to the Levant, and Egypt passes you on insensibly to the desert. Landed in Bombay, you have strayed into a most elaborate dream, infinite in variety, spinning with complexity, a gallery of strange faces, a buzz of strange voices, a rainbow of strange colours, a garden of strange growths, a book of strange questions, a pantheon of strange gods. Different beasts and birds in the street, different clothes to wear, different meal-times, and different food-

the very commonest things are altered. You begin a new life in a new world.

It takes time to come to yourself. At first everything is so noticeable that you notice nothing. You pin your eyes to the little fawn-coloured, satin-skinned, humped oxen in the carts, to the blue crows that dance and spar in the gutters. They are the very commonest things in India, but just because they are common bullocks-yet with humps! common crows—yet blue!—their fascination is enthralling. The white ducks you wear all day are like a girl's first court dress, and you sit down to breakfast at eleven off a fish called pomphlet with the sensation of a Gulliver.

When things begin to come sorted and sifted, Bombay reveals itself as a city of monstrous contrasts. Along the sea-front one splendid public building follows another variegated stone façades with arch and colonnade, cupola and pinnacle and statuary. At their feet huddle flimsy huts of matting, thatched with leaves, which a day's rain would reduce to mud and pulp. You sit in a marble-paved club, vast and airy as a Roman atrium, and look out over gardens of heavy red and violet flowers toward choking alleys where half-naked idolaters herd by families together in open-fronted rooms, and filth runs down gullies to fester in the sunken street. In this quarter you may see the weaver twirling his green and amber wool on a hand-loom

—a skeleton so simple and fragile that a kick would make sticks of it; go to the street corner, and you see black smoke belch from a hundred roaring mills, whose competition cuts the throat of all the world. In the large open spaces Parsis bowl each other under-hand full-pitches and cry, "tank you, tank you," after the ball; by the rail squats a Hindu, who would like, if only the law would let him, to marry babies and burn widows.

Yet, for all its incongruities, Bombay never will have you forget that it is a great city. If it had no mills it would be renowned for its port; if it had neither it would be famous for its beauty. Its physical configuration is something like that of New York. Bombay lies at the southern end of a long narrow island; its oldest part, the Fort, is toward the southernmost extremity. Here are the landing-piers, the public buildings, the newspapers, the principal business centres. Next comes the native city; and the fashionable quarter for residence once lay northward where the Byculla Club, the best in Bombay, still marks its site. But flowing business, as in New York, has risen and surged over the city; it has washed the native quarter northward, and the Club now stands an almost solitary landmark among cotton-mill chimneys and teeming native tenements. The Europeans, with the ever-multiplying class of rich natives, now live further westward on the Ridge or on Malabar Hill, which, turning south to face the old town, forms the western horn of Back From the narrowness of the original city, and the four Bay. From the narrowness of the original city, and the four miles' drive between it and the Ridge, it follows that rents are high and land continually more valuable; and from that follows that the native town is not one- or two-storeyed as elsewhere in India, but laid out in great tenement blocks, which lend themselves to picturesqueness and to plague.

So that in the drive from the Apollo Bunder to Malabar Point, all India is unfolded in one panorama. First the business houses and the great buildings—those the richest, these the stateliest in India, and challenging comparison with almost any city in the world. Every variation of design is theirs, but they find a link of uniformity in the red-brown colours common to most, and in the oriental profusion of

Then suddenly the magician turns his ring and new has become old, plain is coloured, solid is tumbled down, the West has been swallowed up utterly by the East. Cross but one street and you are plunged in the native town. In your nostrils is the smell of the East, dear and never to be forgotten; rapturously you snuff that blending of incense and spices and garlic, and sugar and goats and dung. The jutting houses close in over you. The decoration of Bombay henceforth is its people. The windows are frames for women, the streets become wedges of men. Under the quaint wooden sun-hoods that push out over the serried windows of

¹F. E. Younghusband, "The Heart of a Continent" (1896). ²Sven Hedin, "Through Asia" (1899).

the lodging-houses, along the rickety, paintless balconies and verandahs, all over the tottering roofs—only the shabbiness of the dust and dirty plaster relieves the gorgeousness of one of the most astounding collections of human animals in the world. Forty languages, it is said, are habitually spoken in its bazaars. That, to him who understands no word of any of them, is more curious than interesting. But then every race has its own costume; so that the streets of Bombay are a tulip-garden of vermilion turbans and crimson, orange, and flame colour, of men in blue and brown and emerald waistcoats, women in cherry-coloured satin drawers, or mantles, drawn from the head across the bosom to the hip, of blazing purple or green that shines like a grasshopper. You must go to India to see such dyes. They are the very children of the sun, and seem to shine with an unreflected radiance of their own. If you check your eye and ask your mind for the master-colour in the crowd, it is white-white bordered with brown or fawn or amber legs. But when you forget that and let the eye go again, the scarlets and yellows and shining greens—each hue alive and quivering passionately like the tropical sun at midday—fill and dazzle it anew; in the gilding light the very arms and legs show like bronze or amber or the bloom on ripe damsons. You are walking in a flaring sunset, and come out of it blinking.

For Bombay is indeed a queen among cities. Drive down from the Ridge by the white, flooding moonlight, beneath fleshy green leaves as huge and flowers as languor-ously gorgeous as in any fairy tale—beneath hundred-fingered fronds of palm and wax-foliaged banyans that feel for earth with roots hanging from their branches; past tall, broad-shouldered architecture rising above these, Western in its design, Eastern in the profusion of its embellishment; looking always out to the blue-veiled bay with the golden lights on its horns. Then think of the factory smoke, the numberless bales of cotton, the hives of coolies, the panting steamers in the harbour, the grim-eyed batteries, and the white warships. Bombay is a beautiful queen in silver armour and a girdle of gold.¹

THE TAJ MAHAL AT AGRA

The jewel of India—the Koh-i-noor of its beauty—is the Taj, the tomb built by the Emperor Shah Jehan, the grandson of Akbar, for his wife, whom he loved with an idolatrous affection, and on her deathbed promised to rear to her memory such a mausoleum as had never been erected before.

To carry out his purpose he gathered architects from all countries, who rivalled each other in the extravagance and costliness of their designs. The result was a structure which cost fabulous sums of money (the whole empire being placed under contribution for it, as were the Jews for the Temple of Solomon), and employed twenty thousand workmen for seventeen years. The building thus erected is one of the most famous in the world—like the Alhambra or St. Peter's and of which enthusiastic travellers are apt to say that it is worth going around the world to see. This would almost discourage the attempt to describe it, but I will try and give

some faint idea of its marvellous beauty.

It stands on the banks of the Jumna, a mile below the Fort at Agra. As you approach it, it is not exposed abruptly to view, but is surrounded by a garden. You enter under a lofty gateway, and before you is an avenue of cypresses a third of a mile long, whose dark foliage is a setting for a form of dazzling whiteness at the end. That is the Taj. It stands not on the level of your eye, but on a double terrace; the first, of red sandstone, twenty feet high, and a thousand feet broad; at the extremities of which stand two mosques, of the same dark stone, facing each other. Midway between rises the second terrace, of marble, fifteen feet high, and three hundred feet square, on the corners of which stand four marble minarets. In the centre of all, thus "reared in air," stands the Taj. It is built of marble—no other material than this of pure and stainless white were fit for a purpose so

sacred. It is a hundred and fifty feet square (or rather it is eight-sided, since the corners are truncated), and surmounted by a dome, which rises nearly two hundred feet

above the pavement below.

These figures rather belittle the Taj, or at least disappoint those who looked for great size. There are many larger buildings in the world. But that which distinguishes it from all others, and gives it a rare and ideal beauty, is the union of majesty and grace. This is the peculiar effect of Saracenic architecture. The slender columns, the springing arches, the swelling domes, the tall minarets, all combine to give an impression of airy lightness, which is not destroyed even when the foundations are laid with massive solidity. But it is in the finish of their structures that they excelled all the world. Bishop Heber said truly: "They built like Titans and finished like jewellers." This union of two opposite features makes the beauty of the Taj. While its walls are thick and strong, they are pierced by high arched windows which relieve their heaviness. Vines and arabesques running over the stone work give it the lightness of foliage, of trees blossoming with flowers. In the interior there is an extreme and almost feminine grace, as if here the strength of man would pay homage to the delicacy of woman. Enclosing the sacred spot is a screen of marble, carved into a kind of fretwork, and so pure and white that light shines through it as through alabaster, falling softly on that which is within. The Emperor, bereaved of his wife, lavished riches on her very dust, casting precious stones upon her tomb, as if he were placing a string of pearls around her neck. It is overrun with vines and flowers, cut in stone, and set with onyx and jasper and lapis lazuli, carnelians and turquoises, and chalcedonies and sapphires.

The Taj is not a mosque, it is a tomb—a monument to the dead. And that gives it a tender interest, which spiritualizes the cold marble, and makes it more than a building-

a poem and a dream.1

DISPOSAL OF THE DEAD IN INDIA

Almost every conceivable form of disposing of the dead is practised in India. Generally speaking, the Hindus burn their dead, the Mohammedans inter their dead, while the Parsis expose their dead to be devoured by the vultures. The Khasi tribe in the Himalayas preserve in honey those who die in the rainy season, and cremate them when the weather clears. Some tribes in Bengal and Assam smoke the bodies of their priests and chiefs, and keep them in the house for a time before disposing of them. Some ascetic communities bury their dead in salt. In Tibet bodies are exposed to birds and beasts of prey.

When the Hindus gave up the custom of earth burial, and adopted the present plan of burning the corpses on pyres, they still retained traces of the more primitive method.

They prescribed burial for the bodies of persons dying in a state of taboo, like ascetics, lepers, women dying in child-birth, and young children. These last are in North India very generally buried under the threshold, possibly with the hope that they may be reincarnated in the family. primitive rite of providing a funeral feast, at which in its earliest form the corpse was consumed by the survivors by way of a sacrament, was modified into the modern Sráddha, at which food is presented to the dead and the sainted ancestors of the family. Among the existing jungle tribes the primitive practice still prevails.

The Berads of Poona simply leave their dead in the forest, "to become spirits." Others bury the corpse in a rude way in the jungle, and pile a few stones to mark the grave; others perform a farce of cremation, merely singeing the face and feet of the corpse and exposing it in the forest. But the rule is subject to constant modification. Thus, among the tribes of the Hindu Kush cremation used to be the common form, the ashes being collected in rude wooden boxes or in earthen jars and buried. Now Mohammedan influence

²G. W. Steevens, "In India" (1899).

¹H. M. Field, "From Egypt to Japan" (1877).

has taught them to bury the corpse, and the same change of practice has, of course, occurred among the lower Hindu tribes who have in recent times adopted Islam or Christianity.

The rule against cremation of the unmarried dead can be removed by a sort of post-mortem marriage. The natives of South Malabar marry a dead girl to a cocoa-palm or to a young Brahman, and when this is done the death rites are

performed in the normal way.

One of the leading motives of the death rite is to propitiate the ghost, which becomes offended at any ill-treatment of the corpse. Hence probably arose the custom of shelf or niche burial, in which, after the grave is dug, a chamber is excavated on one side, into which the corpse is placed so that it may not be crushed by the overlying soil. This is the rule among some of the ascetic classes and certain vagrant races of the Deccan. It has also been adopted by the Mussulmans. The transition from this to dome or vault burial can be easily

Of another form of burial, that in a crouched or sitting position, India supplies many examples. It has been supposed to symbolize the pre-natal position in the womb, or more probably it is a survival of the binding of the corpse to prevent the ghost from "walking." In later times it seems to have been regarded as honorific, the chief being buried in the posture he occupies at the tribal fire, or the ascetic teacher

as he addresses his pupils.

We find also various devices to prevent the ghost from "walking" after death. Such are the plan of binding the corpse on its way to the pyre; or removing it by a special door so that it may not be able to find its way home; or burying the dead face downwards, or filling the grave with thorns, all based upon the same idea. Others, again, bury the dead for a time, and when corruption has done its work, remove the bones to a tribal ossuary. Here the theory may be that the bones must be purified to form [a home for the ghost.1

THE INDIAN SNAKE-CHARMER

The snake is regarded as sacred by many tribes in India, and snake worship is widely practised, especially in Kashmir and Malabar. The snake-charmer is a familiar figure in every Indian bazaar.

The greatest requisite of the snake-charmer is nerve, and this must be backed by a thorough knowledge of the serpents' habits. No hypnotism is employed, nor has music the slightest influence upon a snake's actions. The Hindu the slightest influence upon a snake's actions. carries his poisonous reptiles in baskets, and, as he prepares to perform, squats down in front of these and begins a crooning refrain upon a reed. With a bamboo stick the performer removes the covers from the baskets. The cobras rear into view with dilated hoods, and the Hindu sways his body from side to side, with quickening strains upon his flute. The deadly cobras begin swinging to the music and the celebrated snake dance is on.

The actual conditions are these: The shrill notes of the reed appeal only to the imagination of the spectators. The cobra's natural attitude of defense is a graceful, rearing pose, with hood widely spread. From this position the snakes follow the swaying motions of the Hindu's body as they alter their aim in an endeavour to strike. The snake-charmer keeps just far enough away from his serpentine troop to render his

bare legs safe from their fangs.

The wily fakir knows very well that if his snakes become accustomed to teasing they will "dance" with less energy. He consequently keeps a fresh supply of undisturbed speci-

mens on hand.

Some of the more daring Hindu snake-charmers immunize themselves against the action of snake venom by taking a course of diluted injections, gradually increased in strength until the desired condition is attained. These men recklessly handle their snakes. The more clumsy fakir, who gives a less finished exhibition, is not taking any chances. He extracts the fangs from his poisonous snakes, so mutilating the animals' mouths in the process that they have no desire to bite.

The Hindu of this type ostentatiously handles a few harmless snakes, mostly small pythons.1

TEA GARDENS OF INDIA

Tea demands an even and warm temperature, and grows best on sloping land with a system of natural drainage. It is owing to this that the lower slopes of the Himalayas offer so fine a field for its cultivation.

The plant is raised from seed, which in size and appearance resembles the hazel-nut. The seeds are sown in carefully-made beds in December and January, and require to be kept shaded at first. The planting out of the seedlings begins in April.

The site of a tea-garden should be well-drained and elevated, so that no water lodges about the roots of the plants. The slopes of low hills rising above the marshy valleys are

the favourite places in Assam.

On the hill-summit may be seen the neat bungalow of the planter, lower down the huts of the coolies, while the teabushes are studded in rows with mathematical precision all

round the sides.

The best soil is virgin forest, rich in vegetable mould. Care is taken that this fertile earth is not washed away by the tropical rains. The plants are about four feet apart, and for two years require weeding, and then pruning. The clippings are buried about the roots for manure. They come into bearing in the third year, and the yield increases till the tenth year.

The produce consists of the "flushes" or successive shoots of young leaves and buds: from five to seven flushes appear

in the season from March to November.

The bushes are picked by women and children, who carry the baskets of leaves to the factory. The leaves are

spread lightly on trays or mats for a night, to wither.

They are then "rolled" by coolies or by machinery, the object being to twist the leaves up tight that they may fer-The fermenting is then arrested by drying, with the ment. help of a fire, and sometimes of special machinery.

The tea is now sorted in sieves according to size and quality, from the Fine Flowery Pekoe to the common Broken Congou, and packed in the well-known lead-lined teachests.2

BENARES, THE SACRED CITY

From the Hindu point of view, Benares has flourished exceedingly under British rule. Its temples and shrines have multiplied, and the strong arm of the law now prevents the desecration and destruction to which they were subject in Mohammedan times. The railways have largely increased the numbers of pilgrims who throng the ghâts and holy places, and have thus added to the offerings which enrich the Brahmin priesthood.

British influence has undoubtedly made for order, decency, cleanliness, and general sanitation in the city. But its effect on the foundations of Hindu beliefs is not very evident in Benares, the Rome of Hinduism, unless the spirit of ex-clusiveness which has sprung up of late years should be re-garded as a sign of the Brahmins' alarm at the increasing influence of Christianity. When Sherring wrote his "Sacred City of the Hindus," in the middle of the last century, he was allowed access to the most sacred places, which are now entirely closed to Europeans, even to the few who claim admission within the pale of the Hindu religion.

Benares has not ceased to be one of the great centres of the intellectual life of India, held in love and veneration by all Hindus; but the orthodox Brahmin looks askance at the efforts of Hindu propagandists, like Swami Vivekananda, who would strengthen resistance to outside influences by en-

larging the borders of Hinduism.

¹R. L. Ditmars, in the National Geographic Magazine (1911).

²Sir W. W. Hunter, "The Indian Empire" (1886).

The Hindu monasteries of Benares are still resorted to by students from all parts of India, for the education imparted by Brahmin Pandits, totally ignorant of modern research and regarding as worthless all knowledge not contained in Hindu sacred literature. On the other hand, there is the extraordinary spectacle of a college for Hindus, supported both by Indians and Europeans, with English men and women expounding Hindu philosophy and religion to Hindus, and seeking to re-state the ancient Vedic wisdom on a basis

siveness, but in its extraordinary power of adaptation and assimilation. It is waste of energy for Christians to inveigh merely against Hindu superstition, idolatry, and caste. It is rather by sympathetic study of Hinduism in all its aspects that we shall learn to reach the hearts of the people, as our Teacher did on the shores of Galilee.¹

THE FREE WOMEN OF BURMA

While the Burmese man has, by force of the combined influences of Buddhism and climate, become either an indolent, harmless monk, or an easy-going amiable, pleasureloving countryman, the Burmese woman, influenced in a far less degree by religion, untrammelled by convention, and gifted with freedom of action from her earliest youth, has developed into an individual of marked intelligence and strong character.

The women are the traders of the country; with them large contracts are often made by Government officials. They keep the stalls in the bazaars, and they aid their husbands in the sale of the paddy harvest. Denied education in the past, Burmese girls are now beginning to avail them-selves eagerly of the Government schools for women estab-lished by the English.

MARRIAGE IN BURMA.—Marriage is in Burma an absolutely free contract, in which the position, the obligations, and the rights of the two contracting parties are equal. This is particularly shown in the disposition of property.

All property belonging to a woman before marriage belongs to her absolutely, but all bequests made at the time of marriage, or profits arising from the investment of property of either husband or wife, or the earnings made by business or labour, constitute "joint property." Neither husband nor wife has the absolute control of the joint property, which cannot be dealt with nor alienated without the consent of the other. Even if the wife earn nothing she is considered to fulfil her part of the partnership by bearing the children and attending to the house, and she still keeps her control

over the joint property.

Marriages in Burma are love matches, and are contracted while the parties are often mere boy and girl. If the husband is unable to provide a home for his wife, the parents of either the bride or bridegroom find room for the couple. The Burmese are kindly and affectionate in their domestic life, and children are adored, so that marriage, though only a civil contract and easily broken, is perhaps happier than in countries where the wife is absolutely in the power of the husband. Should, however, a married couple desire to separate, divorce is easily obtained. Each party then takes his or her separate property, and the joint property is equally divided. The father takes the formula. Fach party is all the formula. the female. Each party is then free to marry again, and no disgrace nor scandal has been incurred.

But though absolutely free and independent, the women of Burma do not resign their privilege to charm. To look pretty, to be gay, attractive and debonaire is their avowed aim, and I know few things in humanity more charming than a group of Burmese girls, clad in rainbow-tinted tameins and white jackets, with sweet-scented flowers stuck jauntily in the heavy coils of their black tresses, laughing, chatting,

1E. B. Havell, "Benares, The Sacred City" (1915).

and even smoking big white cheroots as they mount the pagoda steps, to pay their offering of prayer and praise to the Great Teacher of pity, unselfishness, and purity of life.¹

ELEPHANTS AT WORK IN BURMA

The elephant is indispensable to lumbermen in Burma, and to see these sagacious animals working with almost human intelligence is an instructive and unforgetable experience. On each of my four visits to Burma I never came away without going to the timber yards on the outskirts of Rangoon to see the elephants "a-piling teak." No labour unionist is more punctilious than the elephant in regard to hours; for when the whistle blows for work to cease, no amount of coaxing or coercion can make the animal do another stroke—he simply quits.

It is a novel and interesting sight to watch elephants working in the lumber yards, for they do it all. A Burman sits on the animal's neck with a sharp steel prod in his hand, and directs the beast by touching him on different spots on his head and by the use of quaint expressions which are understood by the man and the elephant only. Elephants handle all the logs and the lumber as intelligently and with much greater ease and rapidity than could be done by a gang of men. MacGregor & Co., one of the largest lumbering firms, employ about two hundred elephants in the forests, at their saw-mills and in their lumber yards at Rangoon. Strangers always go down to see the elephants at work. It is the most interesting sight in Burma.

When the cross timbers that hold the rafts together are cut the elephants go down to the waterside one by one, separate logs weighing two tons or more from the rest of the

raft by the use of their trunks and tusks, and carry or drag them up into the yard and place them upon piles at the entrance to the saw-mill. Sometimes they haul the logs with chains attached to a harness adjusted to their necks and breasts. Sometimes they push them with their trunks and feet. The ease with which they handle the enormous

logs is remarkable, and the intelligence they show is even more so. The native sitting on the animal's neck has only to whisper in its ear what is wanted, and the job is done with

neatness and dispatch.2

CHINESE REVERSALS OF WESTERN CUSTOMS

Many of the customs of the Orient are so contrary to our own that they are a source of great interest to the observant traveller. Dr. K. J. Junor cites a number of such instances in his illuminating article on China in the National Geographic Magazine (1910).

A Chinaman mounts a horse from the right side, and with the right foot, and holds the reins in the right hand-all because he can more easily and safely maintain his dignity, in the doing of these things, by using the stronger hand. When mounted he rides slowly and sedately; never more than at a walk. He stands his horse in the stable with his face outward, because it is more dignified to approach a beast to his face.

The guest of honour is placed on the left in China, because in this position alone can the host gracefully and in a dignified manner perform toward him those ceremonial offices of propriety required on such occasions. In that position he can pick out with his chop-sticks any little tidbit, and either place it on the table before his guest or place it directly in his guest's mouth. If his guest were on his right side this could not be done.

At a wedding the groom is the centre of interest. The bride is noticed only as a matter of curiosity. Her feet arc of the first interest, because a woman's beauty, to the Chinaman, is in her feet, not in her face.

¹⁽Mrs.) Ernest Hart, in "India" (British Empire Series, 1899). W. E. Curtis, "Egypt, Burma, and British Malaysia (1905).

The Chinaman, when puzzled, scratches his foot instead of his head. Many other instances of reversals of western customs can be given, the reasons for which, however, are not so easily discoverable. They are due to custom and environment. Their beds have no mattresses and their furniture no upholstery, but the carving and inlaying are beautiful. Their pillows are hard blocks of wood or little boxes in which the traveller carries his toilet articles and money. They have no stoves, and, in many sections, to keep warm at night the beds are the tops of brick ovens. Where there are no ovens they are so solid with clothes they can hardly move. They carry in the hand little stoves in the shape of baskets containing charcoal.

Women wear pants, while the men wear long gowns down to their feet. The vest is worn outside the coat, and

the soles of their shoes are white and not black.

They pay their doctors to keep them well, and punish them, if they can, if they get worse or die.

Fruit left to ripen is considered unwholesome as being too near to decay, and yet they eat things a thousand times more dangerous. They eat the beaks of birds, the fins and brains of fishes, the entrails of animals, and consider that the claws of tigers, boiled to a jelly, impart strength. The flesh of snakes gives cunning

Eggs are appreciated according to their age. Those 100 years old, black with age from being preserved in ashes,

are great dainties but not uncommon.

Pawnshops are in rich, not in poor neighbourhoods, and

are only patronized by the well-to-do.

In mathematics their decimal fractions are our vulgar fractions and vice versa. Their denominator is our numerator, etc.

They row a boat standing up, facing the bow, and haul the boat on shore by the stern instead of the bow. They tow by the masthead instead of the bow.

The superior man will play battledore and shuttlecock,

while old men stand sedately by and look on.

The woman in sewing pushes the needle from her, while the carpenter draws his plane and saw toward him in working, the teeth of their saw being set in the reverse order of ours.

Vegetables, eggs, wood, etc., are sold by weight. In this they are far in advance of our absurd and unjust custom.

Men only have the honour of a funeral granted to them; women, having no souls, are not of sufficient importance. Their mourning colour is white. Mourners at a funeral are all hired.

ATTITUDE TOWARD FOREIGNERS.—To the Chinaman the foreigner is a boor and a barbarian. It seems a hopeless task to teach him politeness. He looks upon us as creatures of yesterday. To him China is the Middle Kingdom -not only the centre, but the major part of the earth.

The Chinaman wonders why the foreigner leaves his country at all. Is it too small for him to make his living, or has he come to observe the superior people? If so, he is to be commended. But, alas! what a boor he is. What tight and uncomfortable clothes he wears, like the skins of beasts. How vulgarly he eats, and especially what quantities of flesh he devours. No wonder he is blood-thirsty and loves to fight—he has taken on the disposition of the beast. During the Boxer trouble, in the travelling Punch and Judy shows used to stir the people, all foreigners were represented on the stage by the figure of a pig. Although fully convinced of our cleverness, he yet looks upon us as we do upon a trick dog. He is finally forced to the conclusion that he must adopt these methods which have made the foreigners so powerful.

ANCESTRAL WORSHIP.—The underlying reason for the dislike of foreigners must be sought in the Chinese ancestral worship and fear of devils.

They believe that every man has three spirits. These three spirits, in the case of Chinese who are properly cared for at death, have each a distinct place of residence. A fourth order of spirits also exists, consisting of the spirits of the uncared for and unburied dead. These latter are

wandering spirits, ghosts, or devils.

The first of these spirits, when a man dies, goes into the spirit world. Once a year all such spirits are liberated for a month to revisit their old homes. During this month tables covered with viands of every description are placed on the street before the door. It is hoped that these spirits, seeing this provision, may be induced to bring prosperity to the family. They believe these spirits partake of the viands.

The second spirit does not go into the spirit world, but takes up his residence in the bones. When the time for burial arrives, which may be months after death, a live fowl is carried before the coffin to convey the spirit to the grave, and paper representing money is scattered all along the road "to buy the way" from the devils or spirits of the unburied dead, who are everywhere. At the end of five years the body is taken up, the bones cleaned, and replaced in an earthen vessel. This is the proper burial.

Every year the relatives go to the grave to offer provisions and pay reverence to this "grave spirit." This is why all Chinamen desire to be buried by their relatives and in China, else their spirits may become wandering devils. For the same reason they make every endeavour to have the bones of their relations transported to China if they die abroad. Prosperity and health are only secured to the survivors by the proper observance of these ceremonial offices.

To the third order of spirits belongs particularly ancestral worship. By elaborate ceremonies the third spirit is induced to enter what is called an ancestral tablet prepared by the family on the approach of death. This tablet is the sacred symbol of the ancient religion of China, which Confucius found existing in his day, 600 years before the time of Christ. This tablet, containing the spirit of the father, is set upon the principal table in the house or is sent to a Confucian temple. In either case all the family pay their devotions before it. This is ancestral worship or filial piety. The Chinese are also firm believers in the transmigration of souls.

The fourth order are the spirits of the unburied dead. They are those which have no friends, no graves, no tablet, and which have never been conducted to the place of spirits. They are an innumerable host, wandering spirits, ghosts or devils. They are everywhere—in caves, in mountains, and in valleys. They wander through the country roads and in the city streets. They are in stones and trees and houses. They pass through the air only a few feet above the ground. For this reason houses in China are only permitted to be one or two stories high. Pagoda temples and pawnshops are exceptions by special permission and payment. Here is found largely the objection to railways, telegraphs, and the high houses of foreigners. These things bring actual terror to the Chinese, for they interfere with the flight of devils. Calamities of every kind hang over the neighbourhood through these offended devils.

Spirits cannot turn a corner safely; hence all public highways and waterways and city streets are never built straight, but twist and turn. It is hoped by this arrangement that the devils may get confused and lost. For this reason doors and windows are not placed opposite each other, and outside windows are rare, to prevent devils entering. As many intricacies as possible are introduced. The very straightness, therefore, of railways, telegraph lines and all

roads built by foreigners is a menace.

In the above conditions lies one of the great secret causes of hatred toward foreigners; for, though the Chinese may actually build these roads and houses for the sake of the money they earn, yet they do so in fear, unless they can find a satisfactory way of counteracting their malign influence. The hatred, however, always abides.

THE WHIP HAND IN MANCHURIA

When the war with Russia ended, Japan succeeded Russia in the control of what is now the South Manchurian Railway, running from Dairen (formerly Dalny) to Changchun, 438 miles, through the very heart of the country; and she also obtained from China the right "to maintain and work the military line constructed between Antung and Mukden and"—as if of secondary importance—"to improve the said line so as to make it fit for the conveyance of commercial and industrial goods of all nations." The stipulation with regard to the South Manchurian Railway was that China should have the right to buy it back in 1938, and with regard to the Antung-Mukden line, in 1932, by paying the total cost—"all capital and all moneys owed on account of the line and interest." And just here Japan is playing a wily game.

That Japan (in the event of no other method of getting control of Manchuria appearing) hopes to make the railroads too expensive for the hard-pressed Peking government to buy back is self-evident. She is looking far ahead, as those interested in the continuance of the Open Door policy must also look far ahead. The real Open Door question is not a matter of the last four or five years or of the next four or five years, but whether after a comparatively short time the Door is to be permanently closed as in Korea. If it be said that Japan is only human in laying many plans to gain so rich an empire, let it also be said that other nations are only human if they wish to protect their own interests. . . .

In Japan proper the government-owned railway stations are severe and inexpensive structures in which not one yen is wasted for display and but little for convenience.

But when it comes to the South Manchurian Railway, also under the control of the Japanese government (five sixths of the investment held by the government and one sixth by individual Japanese), one finds an entirely different policy in force. Handsome stations, built to accommodate traffic for fifty years to come, have been erected. In Darien, "virtually the property of the railway company," the system has built a magnificent modern city—street railways, waterworks, electric light plants, macadamized roads, and beautiful public parks. More than this, the railway company, not content with the best of equipment for every phase of legitimate railway work, including handsome stations and railway offices, such as Japan proper never sees, has also erected hotels which, for the Orient, may well be styled sumptuous, in five leading cities of Manchuria. Comparatively few travellers go to Mukden, and yet the hotel which the South Manchurian Railway has erected there, for example, is perhaps not excelled in point of furnishing and equipment anywhere in the Far East.

In buying back the railroads, therefore, China will be expected not only to pay for the railways themselves but for all the irrelevant enterprises—hotels, parks, cities—in which the railway companies have embarked; for lines "improved" beyond recognition, and for lines built not even with a view to ultimate profit, but for their strategic importance to a rival and possibly antagonist nation! As an Englishman said to me: "It's much the same as if I, a poor man, should rent you a \$1,000 house, agreeing to stand the expense of some improvements when taking it back, and you should spend \$10,000 in improving my \$1,000 house—and largely to suit your own peculiar business and purposes." . . .

That Japan, then, holds the whip hand in Manchuria, and expects to continue to hold it, is very clear. With China as yet too weak to protect herself, Japan is virtually master of the situation.

The truth is that the ink was hardly dry on the early treaties before the discriminations began. The military railroads, which Japan was in honour bound to all the world to use only for war purposes, were used for transporting Japanese goods before the military restrictions with regard to the admission of other foreign goods were removed. The Chinese merchant and his patrons were famishing for cotton "piece goods" and other manufactured products, and the Japanese goods coming over were quickly taken up and a market for these particular "chops" or "trade-marks" (the Chinaman relies largely on the chop) was established. By the time European and American goods came back, their market in many cases had already been taken away. In some cases, too, their trade-mark rights had been virtually

ruined by the closeness of Japanese imitation. Even on my recent tour, among consuls of three nations, at Manchurian points, I did not find one who did not mention some recent case of trade-mark infringement.

Then came the period of freight discriminations and rebates, when the Japanese (principally the Mitsui Bussan Kaisha, the one great octopus of Japanese business and commerce) secured freight rates that practically stifled foreign business competitors. . . .

Meanwhile, too, the relations between the Japanese government and the Mitsui Bussan Kaisha are so close that competitors are virtually in the plight of having to ship goods over a line owned by a rival—without any higher tribunal to guarantee equality of treatment.

More flagrant still is another violation of international treaty rights. Under Chinese regulations foreign merchants are not allowed to do business in the Manchurian interior away from the twenty-four open marts, but it has been shown that several thousand Japanese are now stationed within the prohibited area, and Japanese are now stationed within the prohibited area, and Japanese reply to the Chinese Viceroy's protest is that he should have objected sooner and that it is now too late. Meanwhile, many Chinese merchants both in the interior and along the South Manchurian Railway, themselves paying the regular likin and consumption taxes, are finding themselves unable to compete with the Japanese, who refuse to pay these taxes. Thus Japan is gradually rooting out the natives who stand in her way, and, day by day, tightening her grip on the country. She is advancing step by step as she did in Korea.

On the whole, the Mikado's subjects seem already to count themselves virtual masters of the country. Inside their railway areas and concessions they have their own government; in the majority of cases while in Manchuria I found it more convenient to use the Japanese telegraph or the Japanese postal system than the Chinese; and where I stopped at the little towns along the line it was a Japanese officer who came to inquire my name and nationality.

officer who came to inquire my name and nationality. . . . Those who apologize for Japanese aggressiveness in Manchuria, those who excuse or sympathize with her evident purpose to make Manchuria walk the way of Korea, have but one argument for their position—the pitiably abused and threadbare plea that the Japanese have won the country by the blood they shed in the war with Russia. The best answer to this is also a quotation from the distinguished and witty Chinaman just mentioned. "The Japanese," said he, "claimed they were fighting Russia because she was preparing to rob China of Manchuria; now they themselves out-Russia Russia. It is much as if I should knock a man down, saying, 'That man was about to take your watch,' and then take the watch myself!"

The aptness of the simile is evident. My sympathy, and the sympathy of every other American acquaintance of mine as far as I can now recall, was with Japan in her struggle because of our hot indignation over Russian aggressiveness. But if Japan had said, "I am fighting to put Russia out only that I may myself develop every identical policy of aggrandizement that she has inaugurated," it is very easy to see with what different feelings we should have regarded the conflict.

Moreover, Japan's legitimate fruits of victory do not extend to the control or possession of Manchuria. As one of the ablest Englishmen met on my tour in the Far East pointed out, Japan's purposes in inaugurating the war were four: (1) to get a preponderating influence in Korea; (2) to get the control of the Tsushima Straits, which a preponderating influence in Korea would give her; (3) to drive Russia from her ever-menacing position at Port Arthur; and (4) to arrest (as she alleged) the increasing influence and power of Russia in Manchuria.

All these things she has gained. Furthermore, she now has actual possession of Korea. The menace of a great Russian navy has been swept away. Again, she has become (with the consent of England) the commanding naval power in the eastern Pacific; and she has gained an influence in South Manchuria at least equal to that which Russia had previous to the war.¹

¹Clarence Poe, "Where Half the World is Waking Up" (1911).

INDUSTRIAL JAPAN

There are two distinct and essentially different kinds of industries in Japan; namely, those which are of native or Chinese origin and which are still carried on to a very large extent in Japanese style, and those which have been introduced from Western countries and are carried on upon the factory system. With the former of these there is no competition in the markets of the world, and they must win their way through their own inherent merits.

The production of the ceramic and cloisonné ware of the Japanese, of their silk fabrics, their pictures and their carvings, and in short, their art productions of all kinds, must be carried on in what is essentially the domestic system of industry if they are to retain their excellence. Each workman is an artist to a greater or less degree, and he revolts against being converted into a machine or the mere attendant of a machine. He requires work which, in itself, gives him pleasure and on which he can imprint his own personality. There is indeed a danger, as I have already pointed out, that the artistic capabilities of the Japanese may be crushed out by the use of machinery, and that they will be brought face to face with all the problems, industrial, physical, and social, which lie heavily on the hearts of all thoughtful men who have observed the conditions of modern industrial nations. While all that is admitted, it must also be recognized that mechanical and industrial development in the production of goods to satisfy many of the ordinary wants of life is a stage in the necessary evolution through which nations must pass before they arrive at a state of equilibrium in which they will endeavour to live and not simply struggle for the means of life.

The industries in Japan which will have a direct effect on her foreign policy are those conducted on the factory system and the products of which come into direct competition with those of other countries. The one which meantime appeals most to British manufacturers is that of cotton, which, as we have seen, has made great strides in Japan during recent years. Not only are the products of Japanese mills able to supply the greater part of the wants of the people of the country, but the surplus now forms a very important item in the trade with Korea and China.

Although the development of Japanese industries has in some cases increased the competition with British and other foreign goods, it has at the same time given a great impetus to the manufacture of others, especially the machinery required in industries and in all the accessories of modern Western life. A glance at the list of imports shows that the Japanese are now users to a greater or less extent of almost all classes of foreign goods; so that an increased demand for these has arisen, which counterbalances the loss in special departments in which they now produce not only for themselves but also for their neighbours in the Far East.

EXPANSION IN THE ORIENT.—The direct economic influence of Japanese industrial development on the countries in the Far East will, no doubt, be to disturb the conditions which have existed for generations; but by itself it is not likely to be very great for a considerable time, for, after all, the best market will be the home market; still as a factor in the evolution which is going on it cannot be neglected. Japanese products are finding their way into all the countries in the Far East, are gradually changing the social customs of the people and leading them to the use of Western appliances and methods, and thus again affecting economic conditions in other departments. But probably most important of all is the indirect and the educational influence of the Japanese in China and Korea; for this is certain to tell before long on large numbers of the people, who will be stirred up to attempt manufactures on their own account. If the Chinese were undertaking modern industries with the same energy as the Japanese, they might become the greatest manufacturing nation in the world, but they are slow to move, not because they are either stupid or lazy, but because they have a philosophy of life which keeps them out

of the competitive struggle. It will be interesting to note how far they are drawn into that struggle, or whether their philosophy will be sufficient to enable them to take advantage of Western methods without allowing these to dominate social and even political conditions.¹

Japanese Labour and Competition.—Japanese industries are women's industries—there being seven times as large a proportion of women to men as in European and American manufacturing. These women workers are mostly from the country. Their purpose is only to work two or three years before getting married and thousands of them, called home to marry the husbands their parents have selected, or else giving way physically under strain, quit work before their contracts expire. There are almost no factory labourers who look on the work as a life business.

Not only in the mills, but in numerous other lines of work, have I seen illustrations of the primitive stage of Japan's industrial efficiency. As a concrete illustration I wish I might pass to each reader the box of Kobe-made matches on the table before me (for match-making of this sort is an important industry here, as well as the sort conducted through matrimonial middlemen without waiting for the aid or consent of either of the parties involved). I have never in my life seen such a box of matches in America. Not in a hundred boxes at home would you find so many splinters without heads, so many defective matches. And in turning out the boxes themselves, I am told that it takes five or six hands to equal the product of one skilled foreign labourer. "It takes two or three Japanese servants to do the work of one white servant" is the general verdict of housekeepers, while it has also been brought to my attention that in shops two or three clerks are required to do the work of one at home. A Japanese newspaper man (his paper is printed in English) tells me that linotype compositors set only half as many ems per hour as in America. In short, the general verdict as I have found it is indicated by what I have written, and the most enthusiastic advocate of Japanese cheap labour, the captain of the steamer on which I came from America, rather spoiled his enthusiasm for getting his ship coaled at Nagasaki for $7\frac{1}{2}$ cents a ton, by acknowledging that if it rained he should have to keep his ship waiting a day to get sufficient hands.

his ship waiting a day to get sufficient hands.

I am convinced that the people as a whole are more than ordinarily averse to steady, hard, uninterrupted toil. "We have a streak of the Malay in us," as a Japanese professor said to me, "and we like to idle now and then. The truth is our people are not workers; they are artists, and artists must not be hurried." Certainly in the hurried production of the factory the Japanese artistic taste seems to break down almost beyond redemption, and the people seem unable to carry their habits of neatness and carefulness into the new environment of European machinery. "Take the Tokyo street cars," said an ex-cabinet officer to me; "the wheels are seldom or never cleaned or oiled, and are half eaten by rust." The railroads are but poorly kept up; the telephones exhaust your patience; while in the case of telegraphing, your exasperation is likely to lose itself in amazed amusement. A few days ago, for example, I sent a telegram from Osaka to Kobe, took my 'rickshaw across town, waited for a slow train to start, and then reached Kobe and the extreet destination of my message before it did.

the street destination of my message before it did.

In considering the failure of Japanese labour to bring forth a satisfactory output, however, one thing more should be said, and that is that we should not put the blame wholly on the wage-earner. Not a small proportion of the responsibility lies at the door of inexpert managers. The family system of production has not only been the rule for generations with that minority of the people not engaged in farming, but it is still the dominant type of Japanese industry, and it will take time even to provide opportunities for training a sufficient corps of superintendents in the larger lines of production.

¹Henry Dyer, "Dai Nippon" (1904).

In further illustration of my argument that cheap labour is not proving so abnormally profitable, I may question whether Japanese factories have paid as good dividends, in proportion to prevailing rates of interest on money, as factories in England and America. Baron Shibusawa, the dean of Japanese financiers and one of the pioneers in cotton manufacturing, is my authority for the statement that 12 per cent would be a rather high estimate of the average rate of dividend, while figures furnished by the Department of Finance show that for ten years the average rate of interest on loans has been 11.25 per cent.

The fact that Western ideas as to Japan's recent industrial advance have been greatly exaggerated may also be demonstrated just here. While the latest government figures show that in twelve years the number of female factory operatives increased from 261,218 to 400,925 and male factory operatives increased from 201,210 to 400,925 and finale factory operatives from 173,614 to 248,251, it is plain that a manufacturing population of 649,000 in a country of 50,000,000 souls is small, and the actual progress has not been so great as the relative figures would indicate. Moreover, many so-called "factories" employ less than ten persons and would not be called factories at all in England or America. The absence of iron deposits is a great handicap, the one steel foundry being operated by the government at a heavy loss, and in cotton manufacturing, where "cheap labour" is supposed to be most advantageous, no very remarkable advance has been made in the last decade. From 1899 to 1909 English manufacturers so increased their trade that in the latter year they imported \$222 worth of raw cotton for every \$100 worth imported ten years before, while Japan in 1909 imported only \$177 worth for each \$100 worth a decade previous—though of course she made this cotton into higher grade products.

It must also be remembered that the wages of labour in Japan are steadily increasing and will continue to increase. More significant than the fact of the low cost per day, to which I have already given attention, is the fact that these wages represent an average increase per trade of 40 per cent above the wages eight years previous.

Of no small significance in any study of Japanese industry must also be the fact that there are in Japan proper a full half million fewer women than men (1910 figures: men, 25,639,581; women, 25,112,338) a condition the reverse of that obtaining in almost every other country. Now the young Japanese are a very home-loving folk, and even if they were not, almost all Shinto parents, realizing the para-mount importance of having descendants to worship their spirits, favour and arrange early marriages for their sons. And what with this competition for wives, the undiminished demand for female servants, and a half million fewer women than men to draw from, the outlook for any great expansion of manufacturing based on woman labour is not very bright.

Yet another reason why wages must continue to advance is the steady increase in cost of living, due partly to the higher standard developed through education and contact with Western civilization, but perhaps even more largely to the fearful burden of taxation under which the people are staggering. A usual estimate of the tax rate is 30 per cent of one's income.

It is my opinion that the Japanese will steadily develop industrial efficiency, but that in the future no more than in the present will Japan menace European and American industry (unless she is permitted to take unfair advantages in Manchuria, etc.), for just in proportion as efficiency increases, just in the same proportion, broadly speaking, wages and standards of living will advance. The three—efficiency, wages, cost of living-seem destined to go hand in hand, and this has certainly been the experience thus far. And whatever loss we may suffer by reason of Japan gradually supplanting us in certain cruder forms of production should be abundantly compensated for in the better market for our own higher-grade goods that we shall find among a people of increasing wealth and steadily advancing standards of living.1

SYNOPSIS OF ASIA (See Maps, pp. 57-70)

EXTENT.—Asia is the largest as well as the most elevated of the continents; it covers the greater part of the Eastern Hemisphere north of the equator. Its area is about 17,040,000 square miles, a third part of the land surface of the globe, and nearly five times that of Europe. The distance from the Suez Canal to Bering Strait is 6,700 miles, more than a quarter

for the globe, and nearly five times that of Europe. The distance from the Suez Canal to Bering Strait is 6,700 miles, more than a quarter of the circumference of the earth.

Asia is bounded on the west by Europe, on the south by the Indian Ocean, on the east by the Pacific, and on the north by the Arctic. The Suez Canal across the Isthmus of Suez separates Asia from Africa.

POPULATION.—About 850,000,000.

PENINSULAS.—On the south: Arabia, India, and Farther India. On the east: Tchuktchis, Kamchatka, and Korea or Chosen. On the west: Asia Minor. On the north: Taimyr.

CAPES.—On the south: Ras el Hadd, the most easterly point of Arabia; Comorin, the most southerly point of India; Negrais, west of Lower Burma; Romania, the most southerly point of the Malay Peninsula; Cambodia, south of Cochin China. On the east: East Cape, the most easterly point of Tchuktchis Peninsula and of the continent of Asia; Lopatka, the most southerly point of Kamchatka Peninsula. On the west: Baba, on the west of Asia Minor. On the north: Chelyuskin, extreme north point of Asia.

SEAS, BAYS, GULFS.—On the south: China Sea, east and south of China; Gulf of Siam, south of Siam; Bay of Bengal, between India and Burma; Arabian Sea, between India and Arabia; Persian Gulf, between Arabia and Persia. On the east: Bering Sea, between Aleutian Islands and Bering Strait; Sea of Okhotsk, between Kamchatka and eastern Siberia; Sea of Japan, between Japan and Korea (Chosen); Yellow Sea, between China and Korea; Gulf of Chihli or Pechili, northwest part of Yellow Sea. On the west: Mediterranean Sea, west of Asia Minor; Red Sea, between Arabia and Africa. On the north: Gulf of Ob, northwest of Siberia.

STRAITS.—On the south: Palk Strait, between Ceylon and India; Strait of Malacca, between Malay Peninsula and Sumatra; Formosa Strait, between China and Formosa. On the east: Bering Strait, between Asia and America; Korea Strait, joining Sea of Japan to Yellow Sea; Kurile Strait, between Kamchatka and Kurile Islands; Perouse Strait, between Europe and

Asia Minor.

Asia Minor.

Islands.—The Laccadives and Maldives in the Arabian Sea; Ceylon in the Indian Ocean; the Andamans and Nicobars in the Bay of Bengal; Penang, Singapore, and other islands of the Malay Archipelago; Hongkong; Formosa (or Taiwan); Hainan; the Japanese Islands; Sakhalin; Kurile Islands; Aleutian Islands, south of Behring Sea. The Philippine Islands, belonging to the United States, are geographically a part of Asia. In the Arctic Ocean are the island groups of New Siberia and Bear Islands. In the Mediterranean, Cyprus, Rhodes, and other Asiatic islands of the Archipelago.

In the Mediterranean, Cyprus, Khodes, and other Asiatic Islands of the Archipelago.

BUILD.—Asia is a continent of the most striking contrasts. It comprises the greatest heights and the deepest depressions on the globe; the most elevated plateaus, and the lowest plains. The "centre of gravity of the continent" is to be found in the mountain-knot formed by the junction of the Himalayas and the Mustagh Range. From this central knot radiate, like the spokes of a wheel, three vast table-lands (the Highland of Pamir, called "the Roof of the World," the Plateau of Tibet, and the Plateau of Iran) and three vast plains (the Lowland of Turan, the Tarim Depression, and the Indo-Gangetic Valley).

The coast-line of Asia is about 51,000 miles in length. Yet in spite of the magnitude of its peninsulas, Asia has comparatively a shorter coast-line than all the other continents with the exception of Africa.

MOUNTAINS.—The mountains of Asia run mainly from southwest to northeast. They are remarkable for the number of their parallel ranges. From the central knot formed by the Himalayas and the Mustagh four ranges run to the east are the Himalayas—literally, "Abode of Snow" (highest summits: Mt. Everest, 29,002 feet; Kanchanjanga, 28,146 feet; Dhaulagiri, 26,826 feet; and Gaurisankar, 23,447 feet); the Mustagh or Karakoram (highest summits: Godwin-Austen, 28,250 feet; Dapsang, 28,103 feet); the Kuenlun, a series of mountain ranges along the northern edge of the great Kuenlun, a series of mountain ranges along the northern edge of the great Tibetan plateau; and the *Tien Shan*, separating Russian Turkestan from Chinese Turkestan (highest summit: Khan Tengri, 24,010 feet).

The range to the west is the Hindu Kush in Afghanistan (highest summit: Tirach Mir, 25,400 feet). The range to the south is the Sulaiman Mountains, between Afghanistan and the Punjab (highest summits: Kaisargarh, 11,316 feet; Takht-i-Sulaiman, i. e., "throne of Solomon," 11,070 feet). Other important ranges are the Altai Mountains, between West Mongolia and Zungaria and in South Tomsk (highest summits, 11,000-12,000 feet);

the Great Khingan and the Little Khingan Mountains, on the eastern edge of the Desert of Gobi; the Armenian Mountains (highest summit: Ararat, with two peaks, the highest about 17,000 feet—on which the Ark is said to have rested after the Deluge); the Taurus Mountains, in the southeast of Asia Minor; the Lebanon Mountains in Syria (highest summit: Dhor el Khodib, 10,060 feet); and the Western and Eastern Ghats, bordering the coasts of the Indian Positively.

Khodib, 10,060 feet); and the Western and Eastern Ghats, bordering the coasts of the Indian Peninsula.

PLAINS.—The Chinese Lowland, on the Pacific; the Lowland of Farther India, well-watered but in some parts marshy; the Plain of Hindustan, watered by the Ganges, the Brahmaputra, and the Indus; the Syro-Arabian Lowland, including the valley of the Tigris and Euphrates; the Plain of Turkestan or Turanian Lowland, the deep depression in which the Caspian, the Aral Sea, and Lake Balkash lie, most of which is desert; the Siberian Plain; and the Plain of Pegu in Lower Burma.

Deserts.—Asia is crossed by a belt of deserts from the southwest to the northeast. The chief divisions of the belt are: the Syrian Desert, east of the valley of the Lordan the Desert of Mesontamia between the Funbrates.

the valley of the Jordan; the Desert of Mesopotamia, between the Euphrates

¹Clarence Poe, "Where Half the World Is Waking Up" (1911).

and the Tigris; the Great Arabian Desert, in the south of Arabia; the Great Salt Steppe, in Persia; the Deserts of Makran and Seistan, in the southwest of Afghanistan; the Thar, in northern India; and the Desert of Gobi or Shamo,

of Afghanistan; the Thar, in northern India; and the Desert of Gobi or Shamo, in central Asia.

RIVERS.—The rivers of Asia are the largest in the Old World. The longer streams rise in the great central plateau, and flow north, east, and south to the sea. There is also a vast continental basin, no water from which ever reaches the sea. There are two remarkable features of the river system: (1) the rivers flow in all directions from the core of the continent; and (2) the presence of twin streams, the chief of which are the Tigris and Euphrates; the Ob and Irtysh; the Ganges and Brahmaputra; the Amu Darya and the Syr-Daria; the Hwangho and the Yangtze.

CHIEF RIVERS OF ASIA

RIVER	LENGTH (miles)	COUNTRY	моитя
Yangtze	3,000	China	Pacific
Lena	2,860	Siberia	Arctic
Amur	2,700	China	Sakhalin Gulf
Mekong .	2,600	Indo-China	China Sea
Yenisei	2,500	Mongolia & Siberia	Arctic
Hwangho or Yellow	-1300	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
River	2,300	China	Gulf of Chihli
Irtysh	2,300	Siberia	River Ob
Ob	2,260	Siberia	Gulf of Ob
Indus	2,000	India	Arabian Sea
Brahmaputra	1,800	India	Bay of Bengal
Salween	1,750	Burma	Martahan Gulf
Euphrates	1,600	Armenia & Mesopotamia	Persian Gulf
Ganges	1,557	India	Bay of Bengal
Amu Darya	1,450 -	Turkestan	Aral Sea
Syr-Darva	1,300	Russian Turkestan	Aral Sea
Olenek	1,200	Siberia	Arctic
Kolyma	1,110	Siberia	Arctic
Si or Si-kiang, i. e. "West			
River"	1,000	China	China Sea
Godavari	900	India	Bay of Bengal

-Aral Sea, in Turkestan; Baikal (largest fresh-water lake in the

LAKES.—Aral Sea, in Turkestan; Baikal (largest fresh-water lake in the Old World) and Balkash, in Siberia; Zaisan, in Asiatic Russia; Tengri Nor, in Tibet; Tungting and Poyang, in China; Urmia, in Persia; Van, in Armenia; Dead Sea and Sea of Galilee, in Syria.

CLIMATE.—Asia has every variety of climate; for it not only stretches from the equator to within 12° of the North Pole, but it rises from 85 feet below the level of the sea to 29,002 feet above it. The tempering influence of the ocean is less and the range of temperature is greater than in corresponding latitudes of Europe.

The rainfall of the eastern Himalayas is the greatest in the world, amounting in the Khasi Hills in Assam to 610 inches (50 feet 10 inches) annually. The following are averages of annual rainfall: Singapore, 97 inches; Hongkong, 79 inches; Java, 150 inches; Cape Comorin, 28 inches; Bombay, 162 inches; Coromandel Coast of India, 24 inches; Ganges Valley, 55 inches; Baku, on the Caspian, 13 inches; Vladivostok, 35 inches. A comparatively rainless belt extends through Arabia, South Persia, Turkestan, and the Desert of Gobi. See Climate Map of Asia, pp. 58, 59.

VEGETABLE PRODUCTS.—Rice is the staple industry on all the well-watered plains of southern Asia. Great quantities of wheat are grown in northwest India; and flax, hemp, and jute, both for their fibre and oil seeds, in every favourable district of India.

The tea tree flourishes in Assam, Ceylon, China, and Japan; the coffee them in India.

favourable district of India.

The tea tree flourishes in Assam, Ceylon, China, and Japan; the coffee shrub in India, Ceylon, Arabia, etc.; cinnamon in Ceylon and the Malay Peninsula; the mulberry tree in Asia Minor, India, Persia, China, etc.; the olive, date, and pineapple in the dry countries of the southwest; ginseng in Manchuria; the camphor tree in China and Japan. Poppy fields, yielding opium, abound in Asia Minor, Persia, India, and China. Indigo fields are common in India and Japan.

Teak, oak, and many other varieties of forest trees, yielding ornamental timber for veneering furniture, abound in India and Farther India. The banyan, mango, deodar, coco, areca, and many other palms are common in the southeast.

Trees producing india-rubber and gutta-percha, and also those from which various gums are obtained, abound in southern and eastern Asia. The vine comes to no perfection in monsoon countries, because of the great excess of

summer rains.

Asia is also the home of the sugar-cane and cotton. In the Malay Peninsula cloves and other spices abound. See Maps, pp. 60, 61.

MINERALS.—Gold, silver, platinum, iron, copper, lead, and graphite are found in the Ural and Altai mountains; gold, copper, and graphite are also worked in India; quicksilver, and zinc in Tibet, China, and Japan; coal in Asia Minor, India, China, and Japan; salt in central Asia; petroleum in the Caspian districts and in Burma; diamonds in India and Siberia; sapphires in Ceylon; rubies in Burma. See Economic Map of Asia, p. 61.

ANIMALS.—Northern Asia is noted for its fur animals; southern Asia for its wild animals, poisonous reptiles, and brilliant insects. The characteristic animals are—the elephant, tiger, and buffalo in India; the camel in the southwest; the yak in Tibet; the horse and wild ass, sheep and goat in the table-lands; the sable, marten, and other fur-bearing animals in Siberia.

Europe and America are indebted to Asia for their decreases.

Siberia.

Europe and America are indebted to Asia for their domestic animals, as well as for their domestic poultry, except the turkey. The horse reaches the highest perfection in Arabia and in the arid regions of western Asia. Ponies, on the other hand, thrive better in the hilly tracts and the wetter regions of the east. Asses and mules are abundant practically throughout the continent. The humped oxen and buffaloes are the common beasts of draught in India and elsewhere. A hybrid between the buffalo and the Tibetan yak, called the zo, is raised in Tibet and the Himalayas. Sheep are abundant in the more temperate parts, while goats are universal; both of these animals are utilized as beasts of burden in Tibet. The reindeer of northern Siberia are used for saddle as well as for draught.

POLITICAL DIVISIONS OF ASIA

(See Map, p. 57)

COUNTRY	AREA (sq. miles)	POPULATION
A 70 (14 m 11 1 1 7 7 1)		
ASIATIC RUSSIA (with Bokhara and Ilhiva)	6,405,121	25,645,000
Turkey in Asia	597,110	17,684,000
HEJAZ	96,500	300,000
OMAN	82,000	500,000
Persia	635,135	9,000,000
SIAM	198,900	7,562,000
CIIINA*	4,278,143	329,618,000
JAFANESE EMFIRE	258,806	69,737,000
British Dependencies		
Indian Empire	1,900,000	315,000,000
CEYLON	25,500	4,100,000
STRAITS SETTLEMENTS	1,770	700,000
FEDERATED MALAY STATES	27,700	1,000,000
OTHER MALAY STATES (Johore, Kedah, etc.)	14,200	800,000
Weihaiwei	390	440,000
N D	31,000	160,000
Brunei	4,000	30,000
SARAWAK	50,000	650,000
Cyprits	3,600	275,000
Within British Sphere of Influence	3,000	#73,000
AFGHANISTAN	250,000	5,000,000
BHUTAN	20,000	250,000
Nefal	54,000	4,000,000
Dutch Dependencies		
DUTCH EAST INDIES	738,000	37,979,000
French Dependencies		
French India (Pondicherry, Chandernagore, etc.)	200	277,700
Portuguese Dependencies	309,979	16,600,000
Portuguese India (Goa, Daman, Diu.)	1.470	605,000
Macao	1,470	80,000
TIMOR	7,450	300,000
	7,430	300,000
Total	15,991,278	848,496,700
	3,,,,,,,,	

*The figures for China proper ("the 18 provinces") are: area, 1,532,789 square miles; population, 310,895,000.

ASIATIC RUSSIA

(See Map, p. 57)

Asiatic Russia consists of Russian Central Asia and Siberia, besides the dependencies of Bokhara and Khiva Some authorities include Transcaucasia in Asiatic Russia; other seven extend the boundary to the Manych depression on the north of the Caucasus. For Caucasia, see under Russia in Europe, p. 275.
RUSSIAN CENTRAL ASIA.—This comprises the Steppes, Russian Tur-

Russian Central Asia.—This comprises the Steppes, Russian Turkestan, and the Transcaspian province; area, 1,366,833 square miles; population, 10,107,000. The extremes of climate are severe; the rainfall is very slight. The climate is milder than that of Siberia. In the valleys grain, cotton, tobacco, fruits, and mulberries (for the extensive silkworm culture) are produced. Tashkend is the capital (population, 272,300), where the wares of Bokhara (silks and cottons), Persia (pearls, precious stones, and weapons), and India (woven goods, spices, works of art, etc.) are exchanged for European products imported from Russia.

SIBERIA.—Siberia extends from the Ural Mountains to the Pacific; area, 4,831,882 square miles; population, 8,719,000. The climate is marked by long and severe winters and by short, hot summers. Agriculture can be carried on only in the south, where grains, potatoes, onions, melons, etc., are produced. In central and eastern Siberia are extensive forests of cedars, pines, firs, larches, and aspens. Domestic animals are numerously bred.

are produced. In central and eastern Siberia are extensive forests of cedars, pines, firs, larches, and aspens. Domestic animals are numerously bred. The mineral wealth is great; it includes gold, silver, copper, lead, graphite, and extensive deposits of coal and iron. The Trans-Siberian railway has led to considerable immigration and trade. Siberia has been a great penal colony ever since its conquest by the Russians; but on the founding of the Republic in 1917 all political exiles were set free.

Republic in 1917 all political exiles were set free.

Tomsk (population, 117,000) is the western capital, and Irkutsk (population, 130,000) the eastern capital.

BOKHARA.—Bokhara is a vassal state of Russia, and has an area of 85,000 square miles, with a population of 1,250,000. The chief products are rice, wheat, fruit, hemp, cotton, and silk. The imports are principally manufactured goods and sugar. Bokhara is the capital (population, 75,000).

KHIVA.—The vassal state of Khiva lies between Bokhara and Russian Transcaspia; area, 26,000 square miles; population, 800,000, of whom about half are nomads. The country is very fertile. Khiva is the capital (population, 10,000).

lation, 10,000).

CHIEF TOWNS AND INDUSTRIES OF ASIATIC RUSSIA

TOWN	FOF. IN THOUSANDS	PRINCIPAL INDUSTRIES
Siberia IRKUTSK TOMSK VLADIVOSTOK KRASNOYARSK CHITA RUSSIAN CENTRAL ASIA TASHKEND OMSK KOKAND SAMARKAND ANDIZHAN	130 117 91 87 79 272 136 119 98 82	Iron, glass, pottery, cereals, potatoes, distilleries. Leather, cattle, metals, furs, carriages. (Chief seaport and naval station on the Pacific.) Mechanical and naval works, steam saw-mills, flour-mills. Gold, brick, soap, leather, iron. Agricultural products. (Chief commercial centre.) Saw-mills, tanneries. Cotton, silk. Cotton, silk, wheat, rice, horses, fruits, cutlery. Cotton factories.

¹ For towns in Transcaucasia, see under Russia in Europe, p. 275.

TURKEY IN ASIA

(See Map, p. 57)

Turkey in Asia consists of Asia Minor, Armenia and Kurdistan, Meso-

Turkey in Asia consists of Asia Minor, Armenia and Kurdistan, Mesopotamia, Syria, and part of Arabia. A considerable part of Asiatic Turkey has been occupied by Great Britain and Russia during the Great War; while in Arabia the Hejaz has proclaimed its independence, and the other provinces hold only nominal allegiance to the Ottoman Empire.

The climate varies, though it is principally warm. The winter and summer mean temperature at Smyrna is 48.5°F. and 78.8°F.; Jerusalem, 49.5°F. and 73.7°F.; Bagdad, 49.5°F. and 93°F.

Asia Minor.—The land is very fertile, but the Turks cling to antiquated methods of agriculture. The chief products are grain, fruits (raisins, figs, olives, pomegranates, etc.), tobacco, poppies for opium, grape-vines, cotton, madder, hemp, flax, roses, and numerous medicinal herbs. Horses, camels, mules, asses, and cattle are raised. The Greek population gives more attention to sheep and goats, including the Angora or mohair goat. Silk worms are reared; bee-keeping flourishes on the islands; large quantities of sponges are fished off the coasts. Minerals are abundant but are not much worked. Silver, copper, iron, coal, and salt are found. Eskishehr is famous for its meerschaum. for its meerschaum.

The chief port is Smyrna, the "flower of the Levant," where the ships of the West meet the caravans of the East.

Armenia and Kurdistan.—This mountainous region is of great historical interest as being the original seat of one of the oldest civilized peoples in the world. Armenia is intersected by the Euphrates. The chief products are wheat, barley, hemp, cotton, tobacco, and grapes; in some of the valleys peaches, walnuts, apricots, and mulberries are grown. The Armenians are Christians, and have been subjected to atrocious persecutions at the hands of their Turkish rulers (see under Turkey in Europe, p. 289). Kurdistan, i. e., "Land of the Kurds," contains extensive forests, and numerous pastures. Cattle, sheep, and goats are raised, while the valleys yield rice, cotton, flax, and fruits.

Mesoporatus Mesoporation is populated principally by Arabs, Kurds

pastures. Cattle, sheep, and goats are raised, while the valleys yield rice, cotton, flax, and fruits.

Mesopotamia.—Mesopotamia is populated principally by Arabs, Kurds, and Armenians. The country is drained by the Euphrates and Tigris, but is capable of much more irrigation and cultivation than exists at present. Sir William Willcocks projected a vast scheme of irrigation soon after the change of régime at Constantinople in 1908; but the carrying out of the work has been greatly hampered by lack of funds. One section of the scheme was completed by the inauguration of the Hindié Barrage in December, 1913. More land is thus being brought under cultivation. The extension of the Bagdad Railway will still further help to develop the country.

Syria.—Syria is a long strip of mountainous country which stretches in an almost straight line from the Sinai Peninsula to the Gulf of Iskanderun. Its coast is called the Levant. Palestine or the Holy Land is a small district in the south, and is little larger than Belgium. The total area of this cradle of Christianity is about 11,000 square miles; its population is about 700,000, of whom 150,000 are Jews and the remainder principally Mohammedans. Aleppo, in northern Syria, stands at the meeting-point of several trade routes, and is the chief caravan station between the Euphrates and Iskanderun (or Alexandretta). Damascus is the chief city in Syria, and a great centre of the caravan trade. It was called "the Eye of the East." Here Paul was converted to Christianity. Damascus gives its name to a kind of cloth—damask. Its port is Beirut.

Jerusalem stands on a rocky plateau, and commands the water-parting of the Mediterranean and Dead Sea basins. It has a more wonderful history than any other city in the world. Bethlehem, where Christ was born, is a village a few miles south of Jerusalem. Jaffa is the port of Jerusalem. Nazareth, at the foot of Mount Tabor, is the chief city of Galilee. Tiberias is a small place on the Lake of Tiberias or "Sea of Galilee." Gaza is one of the ol

globe, a race that at one time spread its dominion from Spain and Morocco on the Atlantic to the Eastern Archipelago in the Pacific. It has always been an isolated region, a land apart. Its hot climate and its barren soil have attracted no settlers, and its waterless deserts have repelled invaders; while it has poured out horde after horde of warriors who carried the religion of Islam with fire and sword into the richest countries of Asia, Africa, and Europe. The Arab Empire was at one time larger than that of Rome at its greatest extent. Even now, by their religion (the Mohammedan) and their institutions, the Arabs give law and custom to one-eighth of the human

The inhabitants are broadly divided into two classes: Ahl Hadr, the dwellers in the towns, and Ahl Bedoo, the dwellers in the open; hence the name Bedouins. The Bedouin is accustomed from infancy to lie on the hard ground, to endure the rays of an almost vertical sun, to go without sleep or food for days, to taste no strong drinks. He is the very soul of hospitality; "the guest is sacred in his camping-ground, and the foe himself is welcome once he has touched the tent-roof."

Arabia has no roads, no rivers no canals, no lakes. The peninsula is

is welcome once he has touched the tent-roof."

Arabia has no roads, no rivers, no canals, no lakes. The peninsula is crossed everywhere by well-marked caravan routes, the direction of which is determined by the number of wells and reservoirs along their course. All trade-routes converge on Mecca and Medina.

ADEN.—Aden, on the south of Yemen, together with the islands of Perim, Kuria Muria, and Socotra, is a British possession, politically attached to the province of Bombay, India. Aden is a coaling station for the British navy, and is strongly fortified.

CHIEF EXPORTS OF TURKEY IN ASIA.—Horses, camel's hair, cotton, silk, tobacco, madder, figs, raisins, olives, gallnuts, wine, opium, wax, gums, mastic, sponges, mohair, meerschaum, leather goods, carpets, and shawls.

shawls.

CHIEF IMPORTS.—European manufactures, including linen and other fabrics, metal goods (especially weapons and gold and silver wire), hardware, porcelain, glass, clocks, instruments, tools; also hides and skins, pearls, precious stones, salt, iron, and colonial produce.

CHIEF CITIES AND INDUSTRIES OF TURKEY IN ASIA

CITY	POF, IN THOUSANDS	PRINCIPAL INDUSTRIES
ALEFFO	250	Textiles, wax, skins, soap, tobacco, gold, silver, and filigree
		work.
BAGDAD	225	Leather, silks, cottons, woollens, carpets.
Basra	80	Exports dates, horses, wool, attar of roses. (Centre of traffic between Turkish, Persian, and Indian dominions.)
Beirut	150	(Chief seaport town in Syria.) Silk, Oriental books.
BITLIS	40	Tobacco, wine, cloth weaving.
BRUSSA	110	Satins, silk stuffs, carpets, gauze.
DAMASCUS	250	Silks, coarse cloths, firearms, swords, and jewellery.
DIARBEKR	38	Iron, copperware, leather, silk, and other textiles.
Erzerum	38 80	Copper and iron. (Chief halting-place for Persian pilgrims
		on way to Mecca.)
Gaza	40 60	Pottery and black earthenware.
HAMA	60	Silk, woollen, and cotton goods.
Номѕ	70	Silk, fruit, and cereals.
JAFFA (or JOFFA)	45	(Seaport.) Fruit, especially "Jaffa oranges."
JERUSALEM	85	Olive oil, mother-of-pearl goods.
KAISARIYE	54	(Most important trade centre in Eastern Asia Minor.) Fruit, especially vines.
KERBELA	65	(Place of pilgrimage.)
Konia	45	Carpet weaving, cotton, and silk.
Mosul	45 80	Cotton stuffs; formerly noted for its muslins.
Roposto	42	Cereals and silk cocoons (produced in district).
SIVAS	4z 65	Cotton cloth, woollen socks.
SMYRNA	375	(Seaport.) Carpets, textiles, pottery.
TREBIZOND	55	(Seaport.) Exports silk, wool, tobacco, wax, oil, etc.

KINGDOM OF HEJAZ

(See Map, p. 64)

The Kingdom of Hejaz attained its independence in November, 1916, during the course of the Great War. In virtue of its possession of Mecca and Medina, the Holy Places of Islam, the new kingdom may be regarded as the most important territory in Arabia. Hejaz was the chief centre of Ottoman influence in Arabia; its possession gave to the Turkish Sultan his best title to the Caliphate of Islam, to the name of "Commander of the Faithful." By means of the Hejaz Railway the Turks were enabled to maintain garrisons in the ports and the chief towns of the interior. The Grand Sherif of Mecca, the hereditary Keeper of the Holy Places, wielded great influence throughout the Mohammedan world; and as the presence of the Turks and their maladministration was always resented, the Grand Sherif headed a revolt, captured the Turkish garrisons, and proclaimed its independence, assuming the title of King of Hejaz.

Mecca (population, 80,000) is the birthplace of Mohammed and contains the Caaba—a small cubical building which contains the famous black stone fabled to have come down from Paradise whiter than milk, but to have become black by the sins of those who have touched it. The Caaba is the chief object of pilgrimage among Mohammedans. The fair at Mecca is the largest in the East. Medina (population, 40,000) is the second Holy City in Hejaz; it contains Mohammed's tomb. Jedda, on the Red Sea, is the seaport for Mecca. Horses, dates, and spices (incense, myrrh, manna, and balm) are the chief exports.

A railroad has recently been constructed from Aleppo to Medina, running through Damascus. It is planned to extend the line to Mecca for the accommodation of pilgrims.

OMAN

(See Map, p. 64)

Oman is an independent state in southeastern Arabia, with a coast-line of about 1,500 miles. It is ruled by a Sultan. The population is chiefly Arab, but includes a number of Indians, Persians, Baluchis, and Negroes. Much of the country is desert; dates are the chief product. The principal

imports are rice, arms, wheat, coffee, cotton and silk goods.

Muscat (population, 24,000) is the capital. It was for a long time the centre of the gun-running traffic, which, in spite of the watchfulness of British warships, placed a number of modern rifles in the hands of the tribes of the northwest frontier of India.

PERSIA

(See Map, p. 65)

Persia, called by the natives *Iran*, is mostly an arid table-land, encircled, except on the east, by mountains. The central and eastern portion is a vast salt desert. There are only eight miles of railway open, and travelling is mostly by caravans, and transport by pack animals; the cost of carriage is, therefore, very heavy.

The chief *products* are cereals, cotton, gums, dried fruits, silk, tobacco, and opium. The *minerals* (little worked) are salt, iron, coal, copper, lead, sulphur, etc., with turquoises. *Oil-fields* in southern Persia have been successfully worked by an English company since 1902.

The only important manufacture is that of woollen carpets (mostly a domestic industry), but shawls, silks, and cotton fabrics are also produced.

The only important manufacture is that of woollen carpets (mostly a domestic industry), but shawls, silks, and cotton fabrics are also produced. Sheep and goats are numerous, and good wool is obtained.

Chief Exports.—Dried fruits, raw cotton, pearls, opium, rice, wool, fish, hides and skins, carpets, and silk cocoons.

Chief Imports.—Cotton piece-goods, sugar, tea, cotton yarn, metal wares, gold and silver, petroleum, and indigo.

The sea-borne trade passes chiefly through the ports of Bushire, Benderabbas, and Mohammerah, and via Bagdad.

Government.—Prior to 1006 Persia was an absolute monarchy under

Government.—Prior to 1906 Persia was an absolute monarchy under the Shah. Owing to increasing popular discontent with a corrupt administration and an extravagant Court, a nationalist movement wrested a constitution from the Shah in August, 1906. The Shah was deposed by the National Council, and his son, aged eleven years, appointed to succeed him

CHIEF CITIES AND INDUSTRIES OF PERSIA

стту	POP. IN THOUSANDS	PRINCIPAL INDUSTRISS
BARPURUSH	50	Rice, cotton, sugar cane. (Great emporium of trade be-
	1	tween Persia and Russia.)
BENDERASBAS	10	(Trading port on Persian Gulf.)
Bushirs	12-20	(Seaport; terminus of the Indo-European telegraph; chief
		station in the Persian gulf of the British Indian Steam
		Navigation Company; considerable trade with India,
		Java, Arabia.) Exports wool, carpets, horses, grain,
	-	rosewater, etc.
ISPAHAN	80	Trinkets, firearms, sword-blades, glass, earthenware,
Kekman		artistic brassware, textiles. Silks, shawls, woollens, etc.
MESHED	70	Velvets, sword-blades, turquoise jewellery, silk and cottoo
MESHEO	70	goods.
Reser	41	(Chief market for silks.)
SHIRAZ	32	Roses, wine, inlaid works.
TABRIZ	180	Silks, cottons, carpets, leather and leather goods.
TENERAN	250	Carpets, silks, cottons, articles of iron.
YEZO	55	Velvet and silk manufactures.
	33	

CAPITAL .- Teheran. Population, 280,000.

STAM

(See Map, p. 67)

The Kingdom of Siam is a buffer State between British Burma and French Indo-China, and its integrity is guaranteed by the British and French governments by the Anglo-French Agreement of April, 1904. The

French governments by the Anglo-French Agreement of April, 1904. The upper part of Siam is mountainous, the lower flat.

The chief products are rice and teak. There is a large number of rice mills, mostly in or near Bangkok. The teak industry in the great forests of north Siam is mainly in British hands. Hides and marine products are also exported. The only important minerals are tin, wolframite, rubies, and sapphires. The chief imports are cotton goods and yarn, silk goods, provisions, kerosene, sugar, gunny bags, opium, machinery, metals and metal wares. About 1,100 miles of railroad are open for traffic. There are 3,000 miles of telegraph lines.

The king is an absolute monarch, and appoints his successor. Buddhism is the state religion. Bangkok (population, 629,000) is the capital.

CHINESE REPUBLIC

(See Map, p. 70)

China is the most populous, and, excluding Siberia, the largest country in Asia. China proper (or the Eighteen Provinces) is the most compact nationality in the world. The Chinese dependencies consist of Manchuria, Mongolia, Sinkiang, and Tibet. The foreign population of China is estimated at 154,000, including 78,000 Japanese, 51,000 Russians, and 10,000 Reisish

British.

CLIMATE.—The climate varies greatly, owing to the extent of the country and to its build. Peking has a mean annual temperature of 50°F., Canton of 70°F. The southern coast districts are affected by the southwest monsoon. The interior of the country suffers greatly from drought.

NATURAL PRODUCTIONS.—Agriculture is the principal industry. In the north cotton, wheat, millet, and leguminous plants are cultivated. In the south, especially near the Canton River, rice, tea, and sugar grow, and the silk-worm is raised on a large scale. Opium poppies are cultivated in western China, although considerable efforts have recently been made to suppress this particular industry. The coal-fields are extensive, and have been worked on a small scale for many centuries. The development of the mines all over the country is proceeding.

MANUFACTURES.—Silk is the chief textile woven; there are also manufactures of cotton, although large quantities of cotton-cloth are imported. Paper and fine porcelain are made, principally by primitive processes. Flour and rice mills have a considerable output. The manufacture of paper lanterns is a characteristic industry; as also are wood and wory carving, lacquered and gilt wares, and inlaid metal work.

Chinese industry is chiefly in the hands of small craftsmen, and the products are marked by excellent workmanship. In their own country the Chinese do not readily combine for the purpose of manufacture on a large scale.

large scale.

CHIEF CITIES OF CHINA

4.	AMOY† ANKING* ANTUNG CANTON*† CHEROO† CHEROTU* CHINKIANG† CHUNGKING FOOCNOW*† HANKOW† HANKOW† HARBIN† ICHANO† KAIFENG* KUNGCHOW*† KORGMOON† KWEILIN*	Fukien Anhwei Shengking‡ Kwangtung Hunan Shantung Szechwan Fukien Chekiang Hupeh Kirin‡ Hupeh Honan Kwangtung Kwangtung Kwangtung Kwangsi	184	LANCHOWPU* NANCHANG* NANKING* NANKING* NEWCHWANG* NINGPO* SHANGHAI SOOCHOW! SWATOW! TIATYDANPU* TIENTSIN "TEINAN"! WENCHOW! WUCHANG* WUCHANG*	Kansu Kiangsi Kiangsi Kiangsi Kiangsi Kiangsi Chekiang Chihli Kiangsu Hupeh Kiangsu Kwangtung Shansi Chihli Shantung Chekiang Hupeh Kwangtang Adhwei	500 300 267 37 61 350 821 651 90 500 66 230 800 40 100 500 59 122
					Anhwei Yünnan	

*Capital of province. †Treaty port. ‡Manchuria.

Capital.—Peking. Population, 821,000.

Treaty Ports.—The treaty ports, and other ports opened by China to foreigners, number 64; the chief ports are indicated in the above table. About 19,000 Europeans reside in the treaty ports. Shanghai is the principal foreign centre, with a foreign population of over 11,000.

Coinage.—The coinage used by the Chinese is the cash, made of copper and zinc, 17 of which are equal to one American cent. The tael or liang, as the Chinese call it, is a silver standard, the weight and the fineness of which differ in different towns, but the Haikwan tael is that in which dutics are paid to the Maritime Customs, and this is a weight of 585.3 grains of pure silver 1,000 fine, the value of which is about 66 cents. Several attempts have been made in recent years to reform the currency. The latest of these, put forward by Imperial decree in May, 1910, ordered that the yuan or silver dollar should be the standard, and that after twelve months all payments to the Government must be made on this basis. A decree establishing a uniform system of weights and measures was issued in decree establishing a uniform system of weights and measures was issued in

OMMERCE.—Trade is principally carried on with the following countries:
British Empire (42 per cent), Japan (24 per cent), United States (9 per cent), Russia (6 per cent), Germany, France, and Italy. In addition to overseas trade China has an extensive coast and river trade, in which under special regulations steamers under foreign flags are allowed to participate.

CHIEF EXPORTS.—Raw and manufactured silk, beans and bean cake, tea, cotton, hides, vegetable oils, tin, sesamum seed.

CHIEF IMPORTS.—Cotton goods, opium, metals, rice, cigarettes, fish, coal, and woollen goods.

COMMUNICATIONS.—About 6,500 miles of railroads are open, inclusive of the Manchurian lines, while 2,500 miles more are projected or under construction. The internal trade of China is chiefly carried on by means of numerous canals and navigable rivers. The roads are numerous but badly kept. The inadequate means of transport largely accounts for the slow development of industrial China.

Telegraphs are being rapidly constructed and Paking is in communication.

of numerous canals and navigable rivers. The roads are numerous but badly kept. The inadequate means of transport largely accounts for the slow development of industrial China.

Telegraphs are being rapidly constructed, and Peking is in communication overland with Europe and Tibet. There are 37,000 miles of land lines and 51,000 miles of aërial lines.

Manchuria.—Manchuria lies to the north of China proper, and has a total area of about 360,000 square miles, with a population estimated at 11,000,000. The capital is Mukden (population, 250,000), a station on the Manchurian railroad and connected with the Russian system. Indigo, opium, cotton, tobacco, and various cereals are grown, and there is great mineral wealth.

Mongolia.—Mongolia has a total area of 1,076,000 square miles and a population estimated at about 3,000,000. Outer Mongolia is now, by a treaty of 1915, an autonomous state under Chinese suzerainty. The chief industry is cattle and sheep raising and the provision of transport animals. The principal exports are wool, hides and skins, furs, horns, etc. The chief town is Urga (population, 38,000).

Sinkiano.—The province of Sinkiang consists of Chinese Turkestan, Kulja, and Ili or Kashgaria, and comprises all Chinese dependencies lying between Mongolia and Tibet. In the river districts cereals, fruits, and vegetables are grown. Other natural products are wool, cotton, and silk. Jade is worked, and in some districts gold is obtained. The inhabitants of Sinkiang are of various races collectively known as Turki. Tikuafu (population, 50,000) is the capital. Other towns are Kashgar, Yarkand, Khotan, and Aksu.

Tipet.—Tibet is a plateau, seldom lower than 10,000 feet, on the northern frontier of India. On account of the mountainous character of the country and the Tibetan objection to the presence of strangers, wide regions are still unexplored. The prevailing religion is Lamaism, a corrupt form of Buddhism, noteworthy for its ritualistic practices, including the use of prayer wheels, rosaries, bells, etc. A

a cabinet.

Religions.—The three chief established religions are Confucianism, Buddhism, and Taotism, the Buddhists preponderating. The worship of ancestors is everywhere practised. Roman Catholics have over 1,790,000 professed followers in China, and Protestants over 526,000.

JAPANESE EMPIRE

(See Map, p. 69)

Japan, called by the Japanese Nippon or Nihon, consists of four large and many small islands, said to number in all more than 4,220. The principal islands are Honshu (or Hondo), the largest island of Japan, Shikoku, Kiushu, and Yezo (or Hokkaido). The Kurile Islands have belonged to Japan since 1875. The islands of Japan are volcanic, and eighteen of the summits are still active. Fujiyama or Fujisan (12,370 feet high is the loftiest and most sacred mountain of Japan; it has been dormant since 1707. Japan is also liable to frequent and sometimes disastrous earthquakes.

CLIMATE.—The climate on the whole is 10 degrees colder than that of the corresponding latitudes of Europe or north Africa. The summer is hot, damp, and cloudy; the winter, cold, bright, and dry. The mean temperature of Tokyo in January is 36°F. and in August (the hottest month) 79°F.

Sudden cyclonic storms known as typhoons are of common occurrence, es-

Sudden cyclonic storms known as typhoons are of common occurrence, especially from June to October.

NATURAL PRODUCTIONS.—On account of the mountainous nature of the country, not more than one-sixth of its area is available for cultivation. The soil teems with every kind of agricultural produce. Rice, cereals, tea, sugar, tobacco, potatoes, and fruit are produced. The land is largely held by peasant proprietors, and more than 60 per cent of the population are engaged in agriculture. The coasts are extremely rich in fish. There are extensive forests containing the camphor tree, paper mulberry, vegetable wax-tree, the lacquer-tree, which furnished the celebrated "lacquer" of Japan; also other valuable timber trees.

The chief mineral resources are copper, iron, sulphu, lead, antimony, and zinc. There is a good supply of coal of moderate quality. Gold, silver, agate, cornelian, and rock crystal are also found.

MANUFACTURES.—European methods of manufacture are being increasingly introduced, and manufacturing is now being developed in a very

ingly introduced, and manufacturing is now being developed in a very marked manner, its growth being reflected in the commerce. The chief manufactures are silk and cotton, cotton yarn, matches, paper, glass, lacquer ware, leather work, porcelain, and bronze; shipbuilding is an important industry in the yards.

CHIEF CITIES OF JAPAN

	•	erri	7					OP. IN OUSANDS			СІТ	Y		 POP, THOUSA	
FUKUOKA HAKODATE* HIROSHIMA KANAZAWA KOBE* KURE KYOTO MOJI NAGASAKI* NAGOYA OKAYAMA	:						4 3	97 100 167 130 498 128 539 72 161 389 87	OSAKA* OTARU SAPPORO SASEBO SENDAI SHIMONO TOKUSHI TOKYO WAKAYA YOKOHA	SEKIMA*	:		 	 1,460 93 97 95 104 72 2,245 78 5 429 85	

CAPITAL.—Tokyo (formerly called Yeddo or Yedo). Population, 2,245,796. Commerce.—The chief imports are raw cotton from India, United States, Egypt, and China; flour from the United States; and piece goods, metals, manures, woollens, wool, drugs, rails, locomotives, and machinery from Europe and the United States. Sugar is largely imported from the Dutch East Indies and Formosa; indigo from Germany and British India; kerosene oil from the United States and the Dutch Indies; beans, peas, and pulse from China and Korea, and rice, principally from British India, French India, Korea, Siam, and China.

The chief exports are silk, cotton yarns, rice, tea, fish, copper, matches, coal, camphor, straw plaits, porcelain, earthenware, lacquer ware, and marine products. Foreign jurisdiction in the treaty ports was abolished in 1899, and in return the country was thrown open to European traders, instead of only the treaty ports.

in 1899, and in ferturn the country was thrown open to European traders, instead of only the treaty ports.

Coinage.—A gold standard was adopted in 1897, the unit of value being the yen =0.75 gramme of pure gold. The yen is the equivalent of \$0.498 United States coinage, and is divided into 100 sen or cents.

Communications.—There are over 6,600 miles of railroad open, besides more than 1,000 miles in Korea and 320 miles in Formosa, while the South Manchurian Railway in China is under Japanese control. There

the South Manchurian Railway in China is under Japanese control. There are 25,000 miles of telegraph lines.

Government.—Prior to 1889 Japan was an absolute monarchy, but in that year a constitution was promulgated. Executive power is vested in the Emperor, with the advice of his ministers. The Diet consists of a House of Peers and a House of Representatives. The House of Peers numbers about 370, including life members and those elected for seven years. The House of Representatives consists of 379 members, elected for four years. Elected and nominated members of both Houses are paid 2,000 yen (about \$1,000) for each session, with travelling expenses.

Korea.—Korea or Chosen is the peninsula lving between the Yellow

Elected and nominated members of both Houses are paid 2,000 yen (about \$1,000) for each session, with travelling expenses.

KOREA.—Korea or Chosen is the peninsula lying between the Yellow Sea and the Sea of Japan. Until 1894 China was the suzerain of Korea, but on the conclusion of the war in 1895, China relinquished her suzerainty, and the independence of Korea was acknowledged. Then began the struggle with Russia, which culminated in the Russo-Japanese War, and by the peace treaty between Russia and Japan, 1905, the paramount interest of the latter country in Korea was acknowledged. Five years later, in August, 1910, Korea was formally annexed by Japan.

Rice, millet, cotton, hemp, and tobacco are grown in the fertile districts skirting the sea. Ginseng, a medicinal root much affected by the Chinese, is largely grown under government supervision, and, being a government monopoly, forms a rich source of revenue. Gold, copper, iron, and other minerals are found. The chief exports are beans, rice, live stock, hides, ginseng, wheat, barley, iron ores, and raw cotton. Manufactures are as yet in a primitive condition, the principal being hemp cloth, brass ware, and an excellent quality of paper resembling the Japanese article, but stouter. Seoul (population, 217,000) is the capital.

FORMOSA.—The island of Formosa (Taiwan) lies off the Chinese coast. It was ceded by China to Japan in 1895, following the China-Japanese War. The chief products are coal, tea, sugar, rice, and camphor. Taihoku (population, 103,000) is the capital.

SAKHALIN.—The southern half of the island of Sakhalin was ceded by Russia at the end of the war in 1905, and has been named Karafuto. There are extensive forests, and its fisheries are valuable.

Pescadores.—The Pescadores (called by the Japanese Hoko or Hokoto) is an island group between Formosa and China; area, 85 square miles; population, 55,000.

KWANTUNG.—Kwantung (or Kwanto), the southern portion of the

lation, 55,000.

Kwantung.—Kwantung (or Kwanto), the southern portion of the Liaotung Peninsula in Manchuria, was originally leased by Russia to China, and was similarly leased to Japan after the Russo-Japanese War. Dairen

(formerly *Dalny*), the capital, has a population of 69,000 and provides Japan with a mainland port, ice free all the year round. *Port Arthur*, which was captured in the war with China (1895) and again successfully besieged in the Russo-Japanese War (1904-5), is also an ice-free port. The climate of Kwantung is mild, and grain is cultivated with success. Coal and salt are worked

Kwantung should be carefully distinguished from the Chinese province of Kwangtung, which lies many miles to the south of the Liaotung

Peninsula.

INDIAN. EMPIRE

(See Maps, pp. 66, 67)

The Indian Empire comprises the great peninsula of Asia between the Arabian Sea and the Bay of Bengal, also the strip of territory bounding that bay on the east. Its area is greater than that of the continent of Europe without Russia. "British India" means all territories governed by the Crown through the governor-general of India; while "India" means British India, together with the various native states under British suzerainty. This is the sense in which the terms "British India" and "India" are used in British official publications.

CLIMATE.—About half the country is within the tropics, but the greatest extremes of heat and cold are in the northwest. In the Himalayas the climate is moist and cold. In northern India it is dry, and the winters are rather cold. In tropical southern India the climate is more equable. Calcutta, Bombay, and Madras all have an equable climate, owing to proximity to the sea. The hot season begins about the middle of March and from then until the bursting of the monsoon there is a steady rise of temperature, induced by the fiery rays of the sun upon the parched earth. At Jacobabad in Upper Sind the thermometer sometimes reaches 125°F. in the shade.

India depends for its fertility upon the monsoon rains. The southwest monsoon brings moisture from the ocean south of the equator, and reaches the west coast early in June and the northern provinces late in June. The mountains arrest these currents and precipitate rainfall, which averages 60 inches in the sub-Himalayan region, 39 inches in the Indo-Gangetic plain, and 30 inches in the Deccan, but is small in Sind and Rajputana.

Madras benefits by the northeast monsoon in the autumn.

POPULATION.—The population of India at the last census was over 315,000,000—more than three times the population of the United States and seven times that of the United Kingdom. Yet India is not over-populated, for two-thirds of the people live on one-quarter of the

Oxer-populated, for two-thirds of the people live on one-quarter of the area.

Caste.—Owing to the operation of the caste system India is broken up into a large number of mutually exclusive aggregates, the members of which are forbidden by an inexorable social law to marry outside the group to which they themselves belong. A caste may be defined as a collection of families, or groups of families, bearing a common name, which is usually associated with a specific occupation. The census of 1901 enumerated 2,378 castes and tribes. The boundary of a caste may be said to be fixed by the rule restricting intermarriage, but its social status depends on the occupation of its members and their habits in respect of diet.

There are four great divisions of the Hindu caste system: (1) The Brahman, or sacred caste; (2) the Kshatriya, the warrior or princely caste; (3) the Vaisya, or mercantile and agricultural caste; (4) the Sudra, or artisan and labouring caste. It is sometimes stated in books that outcastes are called Pariahs. This is not correct; for the Pariah is a member of a low caste of Hindus in southern India, and there are a number of castes still lower than that of the Pariah. Caste does not prevail in Burma, for the Burmese are principally Buddhists among whom caste is not countenanced.

Marriage.—Marriage is almost universal, owing to religious obligations. The movement against infant marriage and enforced widowhood is gaining ground. At the last census there were over 26,400,000 widows in India.

ground. At the last census there were over 26,400,000 widows in India.

NATURAL PRODUCTIONS.—The majority of the population are engaged in agriculture, nearly two hundred millions being either engaged in tilling in agriculture, nearly two hundred millions being either engaged in tilling the soil or dependent upon those so engaged. Great irrigation works have been carried out over an area exceeding 42,000,000 acres. The chief crops are rice, wheat, millet, pulse, and other food grains, oil-seeds, tea, cotton, sugar cane, indigo, tobacco, and coffee. The cultivation of opium is a government monopoly; but the area under cultivation is contracting as the result of an agreement with China to restrict the export.

Special attention is paid to forests, and huge tracts have been reserved in recent years. The forest area exceeds 80,000,000 acres.

The country is rich in coal, especially in Bengal. Iron also is abundant but is little worked. Gold is mined chiefly in Mysore. Crude petroleum is produced chiefly in Burma. Manganese, saltpetre, salt, mica, wolfram, and monazite are produced. There is a fluctuating output of rubies and jade.

jade

MANUFACTURES.—In India the ancient village handicrafts still survive, though they suffer more and more from the competition of machine-made goods. Cotton-weaving is by far the most important hand industry. Power mills have grown up under European auspices, but are now largely owned by natives. There are at present and cotton mills are now largely Power mills have grown up under European auspices, but are now largely owned by natives. There are at present 255 cotton mills at work in India, mostly in Bombay and Ahmadabad, containing 6,600,000 spindles and 103,000 looms. There is a tendency to produce finer yarns, and to pay more attention to weaving. The 70 jute mills, mostly situated in or near Calcutta, contain 796,000 spindles and 38,000 looms. There are also woollen and paper mills, breweries, and various other factories.

POLITICAL DIVISIONS.—The provinces are: Madras (officially, Presidency of Fort St. George), Bombay, Bengal, the United Provinces of Agra and Oudh, the Punjab, Central Provinces and Berar, Assam, the Province of Bihar and Orissa, North-West Frontier Province, Ajmer-Merwara, Andaman and Nicobar Islands, and Burma.

The Province of Delhi was constituted in 1912 on the creation of the new

The Province of Delhi was constituted in 1912 on the creation of the new capital. It consists of a small enclave in the Punjab, with an area of 557 square miles, and a population of about 400,000. The province is under a chief commissioner.

CHIEF CITIES AND INDUSTRIES OF INDIA

CITY	PROVINCE	POP IN THOUSANDS	PRINCIPAL INDUSTRIES
Agra Ahmadabad	United Provinces Bombay	185	Cotton, boots, flour. Cotton, gold and silver thread, silk brocades, pottery, paper,
AJMER ALLAHABAO	Ajmer-Merwara United Provinces	86 172	shoes. Oil-making, cotton. Market for cotton, sugar, indigo,
Ambala	Punjab	80	etc., of district. (Military station.) Centre for cotton and grain trade of dis-
Amritsar Bangalore	Lahore Mysore*	153 189	trict. Shawls, silks, and cottons. Silks, cottons, carpets, gold and
BAREILLY	United Provinces	129	silver lace. Sword-cutlery, perfumery, furni- ture, upholstery, gold and silver
BARODA	Baroda*	99	lace. Market for district trade (grain,
Benares	United Provinces	204	cotton, oil-seeds). (Holy City of the Hindus.) Silk brocades, shawls, jewellery, gold and silver thread, brasswork,
Bhagalpur Bombay	Bengal Bombay	74 979	lacquered toys. Indigo works. Dyeing, tanning, metal working,
CALCUTTA	Bengal	1,222	cottons, furniture. (Former capital of British India; important shipping centre.) Cot-
CALICUT	Madras	78	ton, jute. Coffee cleaning, coir pressing, tim- ber cutting, cottons, tile, oil works.
CAWNPORE	United Provinces	179	Leather and cotton goods.
Dacca Delhi	Dacca Delhi	233	Rice and muslins. Ivory-carving, jewellery, muslins,
			glazed pottery, embroidery, shawls, gold and silver filigree work, miniature painting on ivory.
Hyderabad Hyderabad	Hyderabad* Bombay	501 68	General trade, cotton. Silk, gold and silver embroidery, lacquered ware, pottery, cotton ginning.
JAIPUR JUBBULPORE	Jaipur* Central Provinces &		Metal working, marble.
KARACHI	Berar Bombay	101 152	Cottons, carpets. Iron works, cotton cloth, silk scarfs, and carpets.
Lahorb	Punjab	229	Silk goods, metal works, carpets, cotton, flour, oil, soaps, leather
Lucknow	United Provinces	260	Muslins, embroidery, brass and copper ware, gold and silver
MADRAS	Madras	519	brocade. Cotton mills, cement works, iron foundries, cigars.
MADURA MANOALAY	Madras Burma	134 138	Cigars, brass ware, cotton cloth. General trade.
MEERUT MORADABAD	United Provinces United Provinces	116	(Centre of cotton trade.)
MULTAN	Punjab	99	Metal work, cottons. Carpets, shoes, glazed pottery, enamel work, silk and cotton
Mysore Nagpur	Mysore* Central Provinces	71	goods. Carpets, silks, jewellery. Copper, brass, cotton, woollen goods.
Patna Peshawar	Bihar & Orissa North-West Frontier	136 98	Rice, opium. Scarfs, knives, small arms, wax-
Poona	Province Bombay	159	cloth. Brass ornaments, copper, ivory, jewellery, silk and cotton fabrics,
RAMPUR	United Provinces	74	paper. Pottery, damask, sword-blades,
RANGOON	Burma	293	jewellery. (Capital of Burma.) Rice, saw-
D	D 11		ivory carving, silver work.
RAWALPINDI SHAHJAHANPUR	Punjab United Provinces	86 72	(Arsenal.) Sugar works.
SRINAGAR	Kashmir*	126	Shawls, paper, leather, carpets, firearms, attar of roses, wood carving, copper and silver ware, boat-building.
SURAT	Bombay	115	Silks and cottons.
TRICHINOPOLY	Madras	124	Cigars, gold and silver jewellery, hardware.

*Native State.

Capital.—Delhi. Population, 232,837. Chief Ports.—Calcutta, Bombay, Rangoon, Madras, Karachi, Tuti-

COMMERCE.—Among the countries constituting the British Empire, India comes second to the United Kingdom itself in the volume of its seaborne trade, which almost equals that of Canada and Australia combined. Two-thirds of the exports consist of food, tobacco, and raw materials, while the bulk of the imports consists of manufactured articles. Trade is carried on with the following countries: United Kingdom (60 per cent of imports and 38 per cent of exports), United States (6 per cent of imports and 11 per cent of exports), Japan, France, Italy, Russia, China, and Belgium.

CHIEF EXPORTS.—Jute, cotton, tea, rice, lac, dyes, seeds, hides and skins, wheat and flour, leather, raw wool, opium, rubber, oils, oil-cake, raw hemp, coffee, spices, manganese ore, barley and other cereals.

Communications of the server of coomiles of soilways, mostly owned

COMMUNICATIONS.—There are over 36,000 miles of railways, mostly owned by the State. There are over 330,000 miles of telegraph wires.

Coinage.—The principal coin in use is the silver rupee, containing 165 grains of fine silver and 15 grains of alloy, and weighing in all 180 grains troy. The rupee is equal to \$0.324 in United States coinage, and 15. 4d.

in English money. The British sovereign is legal tender in India at the ratio of 15 rupees to the sovereign. The rupee is divided into 16 annas, the anna being equal to 2 U. S. cents or 1d. The anna is subdivided into

twelve pies, or 4 pice.

Government.—See under United Kingdom, p. 255.

Native States.—The Native or Feudatory States comprise about two-NATIVE STATES.—The Native or Feudatory States comprise about twofifths of the area and two-ninths of the population of India. Their administration, with a few minor exceptions, is not under the direct control
of British officials, but is subject in varying degrees to the supreme government. The Native chiefs are entitled to British protection, but have no
power of making war and peace, or of sending ambassadors to one another
or to foreign states; the military force they maintain is strictly limited; no
European is allowed to reside at any of their courts without special sanction;
and in case of misrule the supreme government can dethrone or suspend the
chief. Generally speaking, the Native States are governed by their own
princes, ministers, and councils, with the advice of a political officer of the
supreme government. supreme government.

The principal Native States are Hyderabad (the premier State in India; area, 82,698 square miles), Mysore, Baroda, Bhopal, Gwalior, Indore, Jammu and Kashmir, Kalat, Kolhapur, Mewar (Udaipur), Travancore, Bahawalpur, Bharatpur, Bikaner, Bundi, Cochin, Jaipur, Karauli, Kota, Kutch, Marwar (Jodhpur), Patiala, Rewa, Tonk, Alwar, Jaisalmer, Khairpur, Orchha, Sikkim, Sirohi, Cooch Behar, Tippera, Bhaunagar, Chamba, Junagarh, Manipur, Nawapagar, Palanpur, Panna, and Tehri-Garhwal.

British Rule in India.—Of British rule in India Colonel Roosevelt says:

"In India we encounter the most colossal example history affords of the successful administration by men of European blood of a thickly populated region in another continent. It is the greatest feat of the kind that has been performed since the break up of the Roman Empire. Indeed, it is a greater feat than was performed under the Roman Empire. Unquestionably mistakes have been made; it would indicate qualities literally superhuman if so gigantic a task had been accomplished without mistakes. It is easy enough to point out shortcomings, but the fact remains that the successful administration of the Indian Empire by the English has been one of the most notable and the most admirable achievements of the white race during the past two centuries. On the whole it has been for the immeasurable benefit of the nations of India themselves.

"Suffering has been caused in particular cases and at particular times to these natives; much more often, I believe, by well-intentioned ignorance or bad judgment than by any moral obliquity. But on the whole there has been a far more resolute effort to secure fair treatment for the humble and the oppressed during the days of English rule in India than during any other period of recorded India history. England does not draw a penny from India for English purposes; she spends for India the revenues raised in India, and they are spent for the benefit of the Indians themselves.

"The mass of the people has been and are far better off than ever before, and far better off than they would now be if English control were now withdrawn from India; the whole Peninsula would become a chaos of bloodshed and violence."

Ex-President W. H. Taft bears similar testimony: "When I think of

Ex-President W. H. Taft bears similar testimony: "When I think of what England has done in India for the happiness of those people; how she "When I think of found those many millions torn by internecine strife, disrupted with constant wars, unable to continue agriculture or the arts of peace, with inferior roads, tyranny and oppression, and when I think what the government of Great Britain is now doing for these alien races, the debt the world owes England ought to be acknowledged in no grudging manner."

CEYLON (See Map, p. 66)

Ceylon is a British crown colony situated southeast of the Indian peninsula.

Ceylon is a British crown colony situated southeast of the Indian peninsula. Its greatest length from north to south is 270 miles; its greatest width 140 miles. The climate varies with the altitude; but on the whole, though tropical, it is healthful, except in the low-lying jungle. The coolest months are December and January; the hottest are April and May.

The staple products are agricultural. The most important for home consumption is rice in its two forms of paddy and dry grain. Besides rice and other grain, the chief crops are: tea, coffee, coconut, rubber, cinnamon, cocoa, and tobacco. Cattle, sheep, goats, pigs, and horses are raised.

Among the more important native industries are gold, silver, ivory, and tortoiseshell work, pottery, mats, fans, and woodcarving. Ceylon is famous for precious stones, especially cat's-eyes, rubies, etc.; the pearl fishery yields a large revenue. The manufacture of salt is a government monopoly. Ebony is also produced and exported. There are over 700 miles of railway open, and 6,560 miles of telegraph wire. Colombo (population, 251,000) is the capital and chief port. the capital and chief port.

STRAITS SETTLEMENTS

(See Map, p. 67)

The whole of the Malay Peninsula, from the southern boundary of Siam to the Strait of Singapore, is within the British sphere, the administrative groups being the Straits Settlements (Singapore, Penang, Malacca, Labuan, Cocos Islands, and Christmas Island), the Federated Malay States (Perak, Selangor, Negri Sembilan, and Pahang), the Feudatory Malay States (Kelantan, Trengganu, Kedah, and Perlis or Palit) and the Protected State of

tan, Trengganu, Kedah, and Perlis or Palit) and the Protected State of Johore.

The climate is almost uniform throughout the year, and foliage is perennial. The rainfall in Singapore amounts to 85.8 inches, in Penang 89.5, and in Malacca 84 inches.

The chief products are gutta-percha, gambier, pepper, rubber, horns, hides, canes, shells, sago, tapioca, spices, dye-stuffs, copra, rattans, coffee, gums, tin, preserved pineapples, etc. The chief imports are rice, cotton piece goods, opium, petroleum, and coal. Singapore (population, 139,000) is the most important port of call for vessels to and from the Far East. It is of great strategic value as a naval base. Georgetown is the chief town and seaport of Penang.

HONGKONG

(See Map, p. 76)

Hongkong is a British crown colony situated off the southeast coast of China at the mouth of the Canton River. British Kowloon on the mainland also forms part of the colony. The island of Hongkong is mountainous, the highest point being Victoria Peak (2,820 feet high). The Peak district is a favourite place of residence, and is reserved for Europeans. The climate is comparatively cool and dry during the winter months. The hot season lasts from May to October. Hongkong is the centre of a vast trade in many kinds of produce, chiefly sugar, opium, flour,oil, amber, cotton, ivory, betel, sandalwood, rice, tea, woollens, silks, salt, etc. Victoria (population 161,000) is the capital. The harbour is one of the finest in the world.

- AFGHANISTAN

(See Map, p. 65)

Afghanistan is a "buffer state" on the northwest frontier of India. It is called by the natives Khorassan. Its foreign relations are exclusively with Great Britain. The chief products are silks, carpets, shawls, chintz, fruits, furs and madder. Kabul (population 60,000) is the capital.

BHUTAN

(See Map, p. 57)

Bhutan is on the southeast of the Himalayas. Part of the state was annexed to India in 1863; the remainder is within the British sphere of influence. Rice and other grains, cattle, jute, etc., are produced. Punaka (population 5,000) is the capital.

NEPAL

(See Map, p. 57)

Nepal lies between India and Tibet; it contains Mt. Everest. The state is under British control as regards its foreign relations. Grain, jute, cattle, etc., are exported; cotton goods and yarn, metals, sugar, salt, spices, etc., are imported. Katmandu (population 50,000) is the capital.

DUTCH EAST INDIES

(See Map, p. 57)

The Dutch possessions in the East Indies include (1) Java, with Madura; and (2) what are called the Outposts, viz., Sumatra, part of Borneo, Celebes, the Moluccas, part of New Guinea, and the Sunda and other islands.

JAVA.—Java is the chief seat of Dutch power in the Orient. The chief products are sugar, rice, coffee, tea, tapioca, quinine, and cinchona bark, teak, and rubber. Batavia (population, 139,000) is the capital.

FRENCH INDO-CHINA

(See Map, p. 67)

French Indo-China consists of the colony of Cochin-China and the protectorates of Cambodia, Annam, Tonkin, and Laos, together with the leased territory of Kwangchow-wan. The chief products are rice, pepper, cotton, tea, sugar, silk, salt, copra, hides, etc. *Hanoi* (population 115,000) in Tonkin is the capital. *Saigon* (population 68,000) is the chief city of Cochin-China Cochin-China.

AUSTRALASIA AND POLYNESIA

THE ANTIPODES.—Australia is antipodean in character as well as in position. Though nearly as large as Europe, it has only one river of any size or importance. The country is full of other peculiarities: trees shed their bark, not their leaves; cherries have their stones outside; flowers have commonly no perfume; quadrupeds run on two feet; mammals lay eggs; and most birds have no song.

When the first European settlers visited the country they found no grain to eat, no domestic animals to give milk or to draw burdens, and not the smallest trace of civilization. The discovery of gold in 1851 caused a great rush of immigrants, and started the country on that career of prosperity which has since been almost uninterrupted.

Convicts were long sent to Australia from the mother country, but transportation to New South Wales practically ceased in 1840, and the last convict vessel to Western Australia arrived in 1868. About 70,000 convicts were landed in Australia, besides almost as many in Tasmania.

Australian Aborig Nes .- The natives of Australia, or blackfellows as they are called, are considered among the lowest as regards intelligence in the whole human family. They are of poor muscular development, and have a chocolate brown or black skin, with coarse, wavy and abundant hair and beard. They are ignorant even of the use of the bow and arrow, though in their unique weapon, the boomerang, they possess an effective substitute. In the settled parts of the country they are inoffensive and rapidly dying out. They have no fixed dwelling; in the summer they live principally in the open-air, and in stormy weather they shelter themselves with bark erections of the rudest construction. They wear little or no clothing. They are occasionally employed by the settlers in light kinds of work, and as horsebreakers; but they dislike continuous occupation and soon give it up.

Most travellers agree in regard to the low intellectual development of the Australians. However, they have sufficiently complex social customs, an extensive folk-lore, and their children have been known, in the missionary schools, to learn to read and write more quickly than European children; arithmetic only appearing to be outside the limits of their intelligence. It should be remarked in regard to all Australian dialects that they have special words only for the figures one and two, occasionally for three and four; but most frequently "two and one" is used for "three," and "two and two" for "four."

NATIVE TRACKS UP TREES.—One of the most curious sights in the bush is that of the ancient tracks of aborigines up the trees, which have been climbed by them to obtain opossums or wild honey. These tracks are a series of small notches made each by three blows of the tomahawk, to admit the great toes, and thus act as a ladder to the black-

The tracks, which are to be seen everywhere in Australia, lead to the most astonishing heights, up bare perpendicular smooth-barked gum-trees. Knowing bushmen can distinguish the ancient ones made by the stone tomahawk before the blacks obtained iron from the English. Many are to be seen on old dead barkless tree-trunks, and now that the blacks are gone they remind one of fossil foot-prints of extinct animals.

Marvellous as this power of climbing with so little support is, it can be done by whites, and I was assured in New South Wales, when on the Hawkesbury River, that there was a white man in the neighbourhood who could beat any black at this sort of climbing, doing it in exactly the same way, and being often employed by my informant in collecting wild honey for him at so much a nest. In the same way there are said to be whites who can throw the boomerang better than any blacks. In fact, a white man, when he brings his superior faculties to bear on the matter, can always beat a savage in his own field, except perhaps at tracking.2

Melbourne.—Melbourne, in extent, wealth, and population, is the chief city not only of Victoria but of Australia. With the suburbs it contains 684,000 souls. The city has grown with great rapidity.

Till 1835 the foot of no white man had trodden on the ground on which Melbourne now stands, unless it was the foot of Buckley, the escaped convict, who lived for thirty years with a tribe of native savages.

Melbourne is not a city beautiful to the eye with the

¹J. Deniker, "The Races of Man" (1900). ²H. N. Moseley, "Notes by a Naturalist" (1892).

charms of the landscape around it, as are Edinburgh and Bath and as Sydney, Hobart, and Dunedin. Though it stands on a river—a winding, rapid little river with varied banks—the Yarra-Yarra by name, it seems to have but little to do with the city. . . . Nor is Melbourne made

graceful by neighbouring hills.

Still the internal appearance of the city is grand, the streets are wide, and large spaces are devoted to public gardens. The streets are all straight and at right angles, after the pattern of Philadelphia. The finest public buildings are the post-office, the town-hall, and the government house. The city has also its public library, university, and benevolent asylums.¹

HOT LAKES AND SPRINGS OF NEW ZEALAND

The hot lakes of the North Island have called forth unbounded admiration from visitors for the wild beauty of the scenery, the delicate tints of the natural crystal basins, and the refreshing luxury of the warm baths. The beautiful terraces of silica were utterly wrecked in 1886 by the same volcanic power to which they owed their origin. Froude gives a graphic description of this phenomenon in his "Oceana." He thus describes his first glimpse of the boiling springs:

Once more in the clear country, we saw in the distance a blue, singular range of mountains, while immediately underneath us, a thousand feet down, stretched a long, greenish lake with an island in the middle of it, and a cluster of white houses six miles off standing on the shore. The lake was Rotorua; the white houses were Ohinemutu, the end of our immediate journey. As we drew nearer to our destination both Ohinemutu and the district touching it seemed to be on fire. Columns of what appeared to be smoke were rising out of the Ti-tree bush, from the lake shore, and from the ditches by the roadside. We should have found the lake itself lukewarm if we could have dipped our hands in the water. At length we reached the foot of a steep bit of road, ascended it, and found ourselves at the door of our hotel, lodging-house, boarding-house—whatever we please to call it. There were two in the place, as at Cambridge, which of course were rivals. Stables, stores, and shops, were sprinkled about miscellaneously, and all round lay a primitive Maori village, consisting of perhaps a hundred or a hundred and fifty families, descendants of the warrior tribes who within living memory had fought fierce and bloody battles on these waters, and had cooked their prisoners at these natural fireplaces.

The smoke which we had seen was steam rising from boiling springs—alkaline, siliceous, sulphuretted, and violently acid—not confined, too, exactly to the same spot, but bursting out where they please through the crust of the soil. You walk one day over firm ground, where the next you find a bubbling hole, into which if you unwarily step, your foot will be of no further service to you. These springs extend for many miles; they are in the island on the lake; they must be under the lake itself to account for its temperature. Across the water among the trees a few miles off, a tall column of steam ascends, as if from an engine. It arises from a gorge where a sulphurous and foul-smelling liquid, black as Cocytus or Acheron, bubbles and boils and spouts its filthy mud eternally. I have no taste for horrors, and did not visit this foul place, which they call Tikiteri. A Scotchman, they say, went to look at it, gazed breathless for a moment or two, and when he found his voice exclaimed, "By God, I will never swear again." Indeed the condition of things all about suggests the alarming nearness of the

burning regions.2

THE MAORIS

The Maoris are the native inhabitants of New Zealand, and are of Polynesian origin. They are not the true aborig-

²J. A. Froude, "Oceana" (1886).

ines, but are thought to have displaced an earlier Melanesian or Papuan race. At the present time they do not number more than 50,000, most of whom are located in the North Island. A great many of the Maoris have been converted to Christianity. In many instances they have acquired considerable property, and in the neighbourhood of the settlements they are adopting European dress and habits. The Maoris of to-day are law-abiding, peaceable, but indolent.

The Maori warrior, before the English landed in New Zealand, was brave, honourable, and chivalrous; like Achilles, he hated liars "as the gates of Hell"; fire-water had not taught him the delights of getting drunk; and the fragments which survive of his poetry touch all the notes of imaginative humanity—the lover's passion, the grief for the dead, the fierce delight of battle, the calm enjoyment of a sunlit landscape, or the sense of a spiritual presence in storm or earthquake, or the star-spangled midnight sky. The germ of every feeling is to be found there which has been developed in Europe into the finest literature and art; but the Maori man and Maori woman, as we had seen them, did not seem to have derived much benefit from the introduction of "the blessings of civilization."

Their interest now is in animal sloth and animal indulgence, and they have no other; the man as if he had nothing else left to work for or to care for; the woman counting it an honour to bear a half-caste child. It is with the wild races of human beings as with wild animals, and birds, and trees, and plants. Those only will survive who can domesticate themselves into servants of the modern forms of social development. The lion and the leopard, the eagle and the hawk, every creature of earth or air, which is wildly free, dies off or disappears; the sheep, the ox, the horse, the ass accepts his bondage and thrives and multiplies. So it is with man. The Negro submits to the conditions, becomes useful, and rises to a higher level. The Red Indian and the Maori pine away as in a cage, sink first into apathy and moral degradation, and then vanish.¹

THE PAPUANS (See Map. p. 74)

The great mass of the population of Papua² belongs to a race which is termed the Papuan. On the east coast the race is to some extent mixed, apparently with Polynesians; and on the north a similar mixture has taken place with Malays and people from the neighbouring islands. The purer Papuan stock occupies the remainder of the island.

Describing the typical Papuan, Mr. A. R. Wallace, by whom the question was carefully investigated, thus writes: "The colour of the body is a deep sooty-brown or black, sometimes approaching, but never quite equalling the jet black of some Negro races. It varies in tint, however, and is sometimes of a dusky brown. The hair is very peculiar, being harsh, dry, and frizzly, growing in little tufts or curls, which in youth are very short and compact, but afterward grow out to a considerable length, forming the compact frizzled mop which is the Papuan's pride and glory. The face is adorned with a beard of the same frizzly nature as the hair of the head. The arms, legs, and breast are also more or less clothed with hair of a similar nature."

The legs are long and slender as in the Australian aboriginal; "the face is somewhat flattish, the brows very prominent; the nose is large, rather arched and high, the base thick, the nostrils broad, with the aperture hidden, owing to the tip of the nose being elongated; the mouth is large, the lips thick and protuberant."

It is difficult to judge of the intellectual character of these people, as they are yet so little known. There is reason to believe, however, that they are not deficient in mental

¹Anthony Trollope, "Australia and New Zealand" (1873.)

¹J. A. Froude, "Oceana" (1886).

² Papua or British New Guinea is a British possession attached to the Commonwealth of Australia.

capacity. Although they wear little or no clothing, they pay great attention to personal appearance, especially in regard to the hair. Besides tattooing and painting the skin, they use ornaments for the nose, ears, and neck, and the teeth with some tribes are filed to a point. Their houses, constructed of bamboo, are often raised upon stakes, and even built in lofty trees. Not only the houses, but all their domestic utensils and weapons are decorated with carvings, as is also the case with their "prahus" or canoes, which are hollowed out of the trunks of trees. Their weapons are bows and arrows, spears, knives, and axes, the two latter being formed of stone. With regard to diet they are not nice; they eat the flesh of the wild pig, kangaroo, cuscus, cassowary, lizards, fish, and some kinds of large insects, as well as that of their domesticated animals, the pig, dog, and fowls. They know how to till the soil; and for vegetable food they have sweet-potatoes, yams, bananas, and sugar cane, to which may be added sago, coconuts, bread-fruit, mangoes, and other fruits which grow wild. Cannibalism has been attributed to them; but while it is certain that some tribes are addicted to the horrible practice, it has not been proved that the whole race is equally guilty. In point of moral character different reports have been given of the Papuans. Some represent them as fierce, vindictive, and treacherous, and often cruel even to their own children; others give them a very much better character. The practice of hunting men for their heads they share in common with other uncivilized races of the Malay Archipelago. The skulls are kept as trophies and proofs of bravery.¹

DRINKING KAVA WITH THE FIJIANS

What vodka is to the Russian, or toddy to the East Indian, kava (or kaava) is to the Polynesian. Kava is a solution in water of the chewed root of a species of pepper (Piper methysticum), and its mode of preparation is graphically described by the naturalist Moseley who visited the Fiji Islands in 1874.

Great satisfaction must be derived by Polynesians from the use of kaava, or it would not have been so universally upheld as a drink amongst them, nor would its use have become associated as it is with an elaborate ceremonial.

Usually, when the party with which I travelled in the large island of Fiji entered a village, the chief of the village made a request, as an offer of hospitality, that we would drink kaava with him; and we sat on his right and left hand at the head of the circle, or rather long loop, formed by those present on such occasions. At the bottoms of the two sides of the loop were seated the servants, or a few of the lower orders of the village, who crawled in crouching and cringing, expressing their humility before the chief in the most osten-tatious manner, looking indeed, sometimes, as if they were really half afraid to come at all.

The kaava is prepared at the opposite end of the loop from that at which the chief sits. Young men with good teeth are chosen to do the chewing, and they pay great regard to cleanliness, rinsing their mouths and hands carefully with water before they commence their task. There is a considerable amount of knack to be acquired in the chewing of the kaava root. If it is well chewed very little saliva should be mixed with it, and it should be produced from the mouth in an almost dry round mass about as large

as the mouth can contain.

The masses produced by several chewers are mixed with water and the infusion is strained, as has been often described. The bowl is placed in front of the chief. It is a four-legged wooden bowl cut out of a single block. It has a string of coconut fibre fastened to it underneath to a loop cut in the wood. By this string the bowl, when not is use, is hung up against the wall in the chief's house. When the prepared bowl is placed before the chief it must always be so turned that the string is directed away from him. The chief is served first in his own private coconut shell. Then the others present, in order of their rank and position of their

seats, receive shells full. We were always served immediately after the chief. It is the correct thing to drink off the coconut-shell full at a draught, and then spin the cup on its pointed end on the mat in front of one and say "Amava," or a word sounding closely like this, meaning, I was told, "it is emptied"; in fact, "no heel taps." After the chief has

drunk, the company all clap their hands in token of respect.
A considerable quantity of kaava, of a strength such as that of the infusion ordinarily drunk at Fiji, must be taken in order to produce intoxication; but I have known a single coconut-shell of strong Fijian kaava make an Englishman, unaccustomed to the drink, feel a little dizzy and shaky about the legs. There is a very great difference in the strength of kaava, depending very much on whether the portion of the root employed is young or old, and of course on the amount of water employed.1

SYNOPSIS OF AUSTRALASIA AND POLYNESIA (See Maps, pp. 71-74)

COMMONWEALTH OF AUSTRALIA

Australia is the largest island and the smallest of the continents. It lies entirely within the southern hemisphere. The area of the Commonwealth of Australia is 2,974,581 square miles, and the population 4,465,800 (with full-blooded, civilized, aboriginals 4,485,000). The coast-line is approximately 8,805 miles; the greatest distance from east to west is 2,400 miles, and from north to south 1,971 miles.

From a physical standpoint the continent of Australia is divisible into an eastern and a western area, the former containing a regular coast-line with a good harbourage, roadsteads, rivers, and inland waterways, and a greater development of fauna and flora; the latter a broken coast-line with estuaries rather than rivers, and but little inland water communication. The whole continent is, roughly speaking, a vast, irregular, and undulating plateau, sometimes below the level of the sea, surrounded by a mountainous coast-line with frequent intervals of low and sandy shore on the north, west, and south. A large part of the interior, particularly in the west, consists of A large part of the interior, particularly in the west, consists of sandy and stony desert, covered with spinifex, and containing numerous salt-marshes, though reaches of grassland occur here and there.

The Commonwealth of Australia consists of the following states and territories: New South Wales, Victoria, South Australia, Queensland, Western Australia, Tasmania, the Northern Territory, Papua, and the Fed-

eral District.

CAPES.—Cape York, the most northerly point; North-West Cape; Cape Leeuwin, in the southwest; Cape Wilson, the most southerly point; and

Leeuwin, in the southwest; Cape Wilson, the most southerly point; and Cape Sandy, in the east.

Bays, Gulfs, Straits, etc.—On the north: Timor Sea, Arafura Sea, Gulf of Carpentaria, and Torres Strait between Australia and New Guinea. On the West: Shark Bay. On the South: Great Australian Bight, Spencer Gulf, Port Philip Bay, and Bass Strait between the mainland and Tasmania, On the east: Botany Bay and Port Jackson.

Mountains.—Australian Alps (highest summits, Mount Kosciusko, 7,328 feet, and Mount Townsend, 7,260 feet), Blue Mountains, Liverpool Range, and New England Range are different parts of the eastern highlands known as the Great Dividing Range running parallel with the east coast. Tasmania is an isolated part of the eastern highlands.

Rivers.—The Murray in the southeast is the only river of importance; it is navigable for small steamers only in the rainy season. Its tributaries are the Murrumbidgee, Lachlan, and Darling. On the east coast are the Hawkesbury, Hunter, Clarence, Richmond, Brisbane, Mary, Burnett, and Burdekin; on the west, the Swan, Murchison, Gascoyne, Ashburton, Fortescue, De Grey, and Fitzroy; on the north, Drysdale, Ord, Victoria, and Daly; and the Roper, the Flinders, and Mitchell, which debouch into the Gulf of Carpentaria.

Fortescue, De Grey, and Fitzroy; on the north, Drysdale, Ord, Victoria, and Daly; and the Roper, the Flinders, and Mitchell, which debouch into the Gulf of Carpentaria.

LAKES.—The lakes are expanses of brackish waters that spread or contract during rain or drought. In droughty season they are merely swamps and mud-flats. Lake Torrens in South Australia is the largest of these depressions. To the north is Lake Eyre, and to the west Lake Gairdner.

CLIMATE.—The climate is variable; long droughts sometime occur causing the death of thousands of sheep; while on the eastern slope there are often disastrous floods. The seasons are the reverse of ours. In the summer months (November, December, and January) all parts of Australia are hot, but not unhealthful. Sydney has a mean temperature of 70°F, in January and 50°F. in July; Melbourne has 66°F. and 50°F.; and Brisbane, 77°F. and 57°F.

VEGETATION.—The most characteristic trees are the eucalypti (gum trees) and acacias. The different species of encalyptus—red gum, blue gum, stringy bark, iron bark, etc.—are greatly valued for their timber. A feature peculiar to Australia is scrub or bush. No grains or fruits are native to Australia; but those imported by the colonists (the vine, orange, peach, fig, etc., and such grains as wheat and maize) flourish in a manner that far surpasses European grains and fruits.

MINERALS.—Australia is rich in minerals, especially gold, copper, iron, tin, coal, and lead. Gold ranks with wheat and wool as one of the chief productions of the country. The chief gold fields are in Victoria (notably at Ballarat and Bendigo); in Queensland (near Charters Towers); in Western Australia (near Coolgardie and Kalgoorlie). More than half the total Australian supply of gold comes from Western Australia.

Animals.—Almost all the animals are marsupials, that is, the female is provided with a kind of bag or pouch in which the young are carried by

the mother until they are able to shift for themselves. The largest marsupial is the kangaroo. Among the carnivora is the native dog or dingo. The oddest animal is the duckbill or platypus, a small aquatic mammal having a bill like that of a duck, thick brown fur, and webbed feet. The wombat is a marsupial resembling a small bear. The bandicoot is a small rat-like marsupial. None of the native animals are of service to man; but the imported domestic animals thrive exceedingly.

The birds are distinguished by beautiful plumage; but they are songless. The emu and cassowary—birds of the ostrich type—are characteristic of Australia. Insects are numerous; most of the snakes are poisonous.

Manufactures.—Australian manufactures are in their infancy. They

MANUFACTURES.—Australian manufactures are in their infancy. They are principally concerned with the production of articles of food, clothing, or housing (including furniture), and are mostly carried on with domestic materials for the needs of the home population.

STATES, CITIES, AND INDUSTRIES OF AUSTRALIA (See Map, p. 71)

STATES AND INDUSTRIES	CHIEF CITIES OR TOWNS
New South Wales.—Agriculture, sheep farming, dairy farming; horse, cattle, and pig raising; frozen meat; mining (coal, copper, gold, silver, lead, zinc).	Broken Hill (28,000), Parramatta (13,000)
VICTORIA.—Agriculture, dairy farming, live stock raising, wool, mining (gold, tin, cop- per, coal, antimony), frozen meat, flour and biscuit manufactures.	Bendigo (38,000), Geelong (35,000)
SOUTH AUSTRALIA.—Agriculture, especially wheat (the "granary of Australasia"); fruit-growing (oranges, olives, grapes, lemons, etc.); fruit drying; wool, mining (copper, gold, silver, lead, manganese), live stock raising, wine manufacture.	Port Pirie (10,000), Port Augusta.
QUEENSLAND.—Agriculture, live stock raising, wood, frozen meat, mining (gold, silver, copper, tin, coal), forestry. Western Australia.—Agriculture, live stock raising, forestry, wool, frozen meat, vinegrowing, mining (gold, coal, copper, tin), pearl fishing.	Townsville (17,000), Toowoomba (24,000) Ipswich (18,000), Charters Towers (17,000) Perth (107,000), Fremantle (21,000), Boul der (11,000), Kalgoorlie (9,000), Alban
TASMANIA.—Agriculture, live stock raising, fruit, forestry, wool, mining (gold, silver, tin, lead, copper).	Hobart (40,000), Launceston (25,000).
NORTHERN TERRITORYPearl fishing, meat	Darwin (formerly Palmerston).
freezing, horse breeding. PAPUA.—Pearl fishing, gold mining, petroleum, tobacco, sugar.	Port Moresby, Samarai, Daru, Bonagal.
FEDERAL DISTRICT.	Canberra.†

**Capital is given hist.

**Camberra, purchased in 1912 from the state of New South Wales, is to be laid out as the capital of the Commonwealth. Meanwhile Melbourne is the seat of government.

COMMERCE.—Since the establishment of the Commonwealth, customs duties are uniform, and trade between the different states is free. The Customs Tariff Act of 1914 gives preference to goods produced in and shipped from the United Kingdom as against the goods of other countries. The chief trade is with the United Kingdom. Among foreign countries

United States ranks first; Japan comes next.

CHIEF EXPORTS.—Wool, wheat, gold, lead, copper, meat, butter, flour, leather, hides and skins, zinc concentrates; tin, silver, timber, coal, live stock,

Chief Imports.—Metal manufactures, cotton and linen piece goods, apparel; drugs, chemicals, and fertilizers; machines and machinery; woollens, silk piece goods, provisions, paper, timber, sacks and bags, oils, tobacco, jewellery, arms, and explosives, and agricultural implements.

Communications.—On account of the lack of navigable rivers, the railways provide the chief means for the development of the country. Most of the railways are owned by the Government. There are over 20,000 miles of railroad opened. A trans-Australian railway from Port Augusta in South Australia to Kalgoorlie in Western Australia is under construction; while a trans-continental railway from north to south is contemplated. There are more than 100,000 miles of telegraph wires.

Government.—The government is that of a Federal Commonwealth within the British Empire, the executive power being vested in the Sovereign (through the governor-general), assisted by a Federal Executive Council. The Commonwealth was inaugurated on January 1, 1901.

The Federal Parliament consists of a Senate and a House of Representatives. The Senate contains 36 members, six from each of the original states, elected for six years by universal suffrage. The House of Representatives, similarly elected for a maximum of three years, contains members proportionate to the population, with a minimum of five representatives for each state. Universal adult (male and female) suffrage obtains throughout the Commonwealth.

NEW SOUTH WALES.—New South Wales was first colonized as a British possession in 1788, and after progressive settlement a partly elective legislature was established in 1843. In 1855 "responsible government" was granted, the present constitution being founded on the Consolidating Act of 1902.

VICTORIA.—Victoria was originally known as the Port Phillip District of New South Wales, and was erected into a separate colony in 1851, with a partially elective legislature. In 1855 responsible government was

conterred.

SOUTH AUSTRALIA.—South Australia was proclaimed a British province in 1836, and in 1851 a partially elective legislature was established. The present Constitution rests upon an Act of 1856.

QUEENSLAND.—Queensland was constituted a separate colony with responsible government in 1859, having previously formed part of New South Wales.

WESTERN AUSTRALIA.—Western Australia was first settled by the British in 1820, and in 1870 it was granted a partially elective legislature. The

ish in 1820, and in 1870 it was granted a partially elective legislature. present constitution rests upon Acts of 1899 and 1911.

TASMANIA.—Tasmania, or Van Diemen's Land as it was called up to 1853, was first settled by the British in 1803 as an appendage to New South Wales, from which it was separated in 1825. In 1851 a partly elective legislature was inaugurated, and in 1856 responsible government was added.

NEW ZEALAND

The British dominion of New Zealand is distant about 1,200 miles southeast of the mainland of Australia, and consists of three main islands in the South Pacific Ocean, known as the North, South, and Stewart Islands, with several groups of smaller islands lying at some distance from the principal group. Area 105,000 square miles; population 1,050,000.

CAPES.—North Cape, Cape Farewell, Cape Palliser, East Cape, Southwest Cape.

west Cape.

BAYS, GULFS, AND STRAITS.—In North Island: Hauraki Gulf, Bay of Plenty, Hawke Bay. In South Island: Tasman Bay, Pegasus Bay, Otago Harbour. Cook Strait divides the North and South Islands. Foreaux Strait divides the South Island and Stewart Island.

Mountains.—The Southern Alps traverse the west side of the South Island (highest summit, Mount Cook 12,349 feet), and slope down on the east to the Canterbury Plain. The highest summits in the North Island are Ruapehn (9,700 feet), Tongariro (7,000 feet), and Mount Egmont

are Ruapehn (9,700 feet), Tongario (7,000 feet),

(8,270 feet).

Rivers.—The principal rivers in the North Island are the Waikato and Wanganui; in the South Island are the Wairau in the north, the Waitaki and Clutha in the south, and the Buller on the northwest.

LAKES.—Taupo is a large central lake in the North Island. The volcanic region has a chain of hot lakes and springs which deposit silica. The celebrated "pink terraces" of Rotomahana, formed by the deposit of silica tinted with oxide of iron, were destroyed by volcanic action in 1886, but are again in process of formation. The South Island has many Alpine lakes of great depth.

CLIMATE.—The extremes of daily temperature vary throughout the year only by an average of 20°; London is 7° colder than the North Island and 4° colder than the South Island. The mean annual temperature of the whole Dominion for the different seasons is:—Spring, 55°; summer, 63°; autumn,

4° colder than the South Island. The mean annual temperature of the whole Dominion for the different seasons is:—Spring, 55°; summer, 63°; autumn, 57°; and winter, 48°F.

VEGETATION.—Pines are abundant; the kauri pine is the most valuable tree in the islands. There are no native grains or fruits; those now cultivated were introduced by the colonists.

MINERALS.—Gold and coal are abundant; manganese, silver, and antimony are also profitably mined.

Animals.—The fauna of New Zealand is very peculiar, due to the long separation of the islands from the neighbouring land-masses. Wingless birds are characteristic; the largest of these, the moa, is now extinct. A bird of this type is the apteryx or kiwi, a wingless running bird with short legs, a snipe-like bill, and long brown hair-like feathers. In the mountainous districts of the South Island is found the kea, a parrot-like bird which has acquired the habit of killing sheep by alighting on the animal's back and digging its beak through the skin and flesh till it reaches the fat about the kidneys. There are no marsupials, no wild carnivora, no snakes, and only one poisonous insect, the kapito, a small spider found on certain beaches.

Industries.—New Zealand is a pastoral rather than an agricultural country, but sufficient wheat and oats are grown for domestic requirements. Much live stock is raised, the pastures of the South Island producing the celebrated sheep of the Canterbury Plain. Coal mining and gold mining (both alluvial and quartz) are important industries in many districts. Rope and twine are manufactured from native flax.

CHIEF TOWNS AND INDUSTRIES OF NEW ZEALAND

TOWN	POP. IN THOUSANDS	PRINCIPAL INDUSTRIES					
AUCKLAND	119*	Glass, paper, rope, brick making, sugar refineries,					
CHRISTCHURCH	8o*	Iron works, agricultural implements, meat refrig- erating works.					
Duneoin	64*	Woollen factories, railway shops, meat refrigerating works.					
Invercargill	16*	(Agricultural district.) Foundries, breweries, wool- len mills, timber works.					
Napier	12*	(Great agricultural and grazing district.) Wool, meat.					
PALMERSTON NORTH	11	Agriculture.					
Timaru	11	Wool, flour, frozen meat, opals.					
WANGANUI	15*	Wool, grain, dairy produce, refrigerating works.					
WELLINGTON	75*	Foundries, refrigerating works, woollens, soap, candles, wax-matches, boots, rope, pottery.					

*With suburbs.

CAPITAL.—Wellington, in the North Island; population 75,000. COMMERCE.—The chief trade is with the United Kingdom and Australia.

Among the foreign countries United States ranks first.

CHIEF Exports.—Wool, frozen meat, butter and cheese, hides and skins, gold, tallow, kauri gum, coal, and timber.

CHIEF IMPORTS.—Clothing, iron and steel goods, machinery, sugar, oils, tea, fruit, manures, tobacco and cigars, bags and sacks, paper, printed

books, and stationery.

Communications.—There are about 3,000 miles of government railway lines open. There are 13,500 miles of telegraph line, with 58,000 miles

of wire.

Government.—The west coast of the South Island was discovered by Abel Jansen Tasman, the Dutch navigator, in 1642. The islands were visited by Captain Cook, in 1769, and later in 1773, 1774, and 1777. The first settlement of Europeans was made in 1814, but no colonization took place until 1825. In 1840 British sovereignty was proclaimed, and in 1841 New Zealand was erected into a separate colony distinct from New South Wales. The executive authority is vested in a governor appointed by

the Crown, aided by a council of ministers, with a legislature of two

DEPENDENCIES.—The dependencies of New Zealand include the Antipodes Group, Auckland Islands, Bounty Islands, Campbell Island—all uninhabited. Chatham Islands support large flocks of sheep and some cattle. Cook Islands produce oranges, bananas, and other tropical fruits, copra, coffee, pearl-shell, and hats. Rarotonga is the chief island. The Kermadec Group, the Three Kings (discovered by Tasman on the Feast of the Epiphany), with some uninhabited islets, also belong to New Zealand.

FIJI ISLANDS

The Fiji Islands form a British crown colony in the South Pacific, about 1,200 miles from Auckland, N. Z. There are about 250 islands in all, of which some are merely uninhabited islets and rocks. The two principal islands are Viti Levu ("Great Fiji") and Vanua Levu ("Great Land"). The climate is remarkably healthful for Europeans. The chief products are the bread-fruit tree, banana, peanuts, yams, coconut, sugar cane, rice, maize, copra, rubber, bêche-de-mer, and cotton. Suva is the capital (population 5,100).

POLAR REGIONS

(See Map, p. 119)

ARCTIC EXPLORATION.—The Frozen North has lured many voyagers, and many to their doom; but among the famous names that shine out in the history of polar exploration none is more inspiring than that of Sir John Franklin. Glorious, but pathetic, is the story of that ill-fated expedition, with its tale of sufferings nobly borne.

Arctic exploration had been somewhat at a standstill since the days when Henry Hudson had perished amid the ice and snows of the Far North. The primary object of these earlier expeditions was to find a northwest passage to India. Unsuccessful attempts were made by Sir John Ross, by Parry, the "Champion of the North," and by others. Franklin explored the north coast of Canada in the neighbourhood of the mouths of the Coppermine River which Hearne saw, and of the Mackenzie River which Mackenzie discovered in 1879.

Loss of Franklin.—Owing to these combined efforts and to further work from the land side by Franklin's successors, almost the entire north coast of Canada from the neighbourhood of King William Island to Bering Strait became known before 1845. In that year the British admiralty made its final effort to find the northwest passage. Franklin volunteered for the command, and, when it was objected that he was sixty years old, he replied indignantly "No! no! only fifty-nine." This was Franklin's last voyage; for he and all his crew perished on or near King William Island (1847–1848). Relief parties swept the region for news of those who were lost, till at length skeleton after skeleton told its dreary tale.

"Not here! The white North has thy bones; and thou, Heroic sailor-soul,
Art passing on thine happier voyage now
Toward no earthly pole."—Tennyson.

One of the searchers, Sir Robert McClure, made the northwest passage from Bering Strait by sea along the south of Melville Island, but lost his ship on the way (1854).

Extensive explorations of Ellesmere Land and the Greenland coast were made by Greeley, who was sent out by the United States Government in 1881 to establish the American circumpolar station at Lady Franklin Bay.

Nansen and the Fram.—In 1893 the Norwegian scientist and explorer Fridtjof Nansen started out on his famous voyage in the Fram (i. e., "Forward"), a vessel of immense strength, pointed at bow and stern and having sloping sides, so that the ice-floes should tend not to crush but merely to slip beneath and lift her. Nansen's intention was to get the Fram fixed in the ice to the north of Eastern Siberia, and let her drift with the current which he believed sets across the polar regions. During the winter of 1894-1895 Nansen with one companion (Johansen) set out on foot, and after many hardships penetrated to within 225 miles

of the terrestrial pole. A vein of poetry runs through the published records of his travels. Here is an extract from his diary:

The wind is howling shrilly over the barren ice-plains; there are 33 degrees of cold, and summer, with its flowers, is far, far away. I would give a year of my life to hold them in my embrace; they loom so far off in the distance, as if I should never come back to them.

But the northern lights, with their eternally shifting loveliness, flame over the heavens each day and each night. Look at them; drink oblivion and drink hope from them: they are even as the aspiring soul of man. Restless as it, they will wreathe the whole vault of heaven with their glittering, fleeting light, surpassing all else in their wild loveliness, fairer than even the blush of dawn; but, whirling idly through empty space, they bear no message of a coming day. The sailor steers his course by a star. Could you but concentrate yourselves, you too, O northern lights, might lend your aid to guide the wildered wanderer! But dance on, and let me enjoy you; stretch a bridge across the gulf between the present and the time to come, and let me dream far, far ahead into the future.¹

Greenland.—Meanwhile the Greenland coasts were being well explored. Nansen had traversed south Greenland from east to west (1888); Peary crossed north Greenland and rounded its northernmost point from the west (1901); and a Danish expedition under Erichsen, coming from the east, explored the last unknown strip of the coast (1906–1908). Thus a continental table-land 10,000 feet above the sea, almost as high as Tibet and as barren as Victoria Land, was dragged out of darkness into light.

The Duke of the Abruzzi made an attempt in 1900 to reach the pole, and got within 206 miles of the coveted goal. These attempts on the part of European explorers were made principally from the Asiatic side. Charles Hall and some other Americans made their attempts from the side of Smith Sound between the continent of Greenland and Ellesmere Land on the west of Greenland. Nares, Beaumont, and other English explorers followed in their train.

CROCKER LAND A MIRAGE.—About 120 miles northwest of Cape Thomas Hubbard, Peary sighted a supposed land which he named Crocker Land. Its existence was a prolific source of dispute among geographers and scientists, till the matter was finally set at rest by Donald B. MacMillan, who returned from a four years' expedition in August, 1917.

Peary was deceived by a mirage, said MacMillan, due to layers of air at different densities suspended close to the ice. Peary sighted this supposed land from a cliff 1,400 feet high. We mounted the same cliff, and for four days were deceived. Finally when the sun shifted it was no longer there. It was but a mirage, but so clear that you could see green hills covered with vegetation, rising high above the water. We sailed right over the supposed Crocker Land. . . . Don't think, however, that Peary was faking. It would deceive any man, no matter who he was.

¹Dr. F. Nansen, "Farthest North" (1897).

PEARY REACHES THE NORTH POLE.—The prize of three centuries of heroic striving was won at last by the American explorer, Commander Robert E. Peary, who for years had waged a persistent and scientific attack on the North Pole, and who finally planted the Stars and Stripes there on April 6, 1906.

The last march northward ended at ten o'clock on the forenoon of April 6. I had now made the five marches planned from the point at which Bartlett turned back, and my reckoning showed that we were in the immediate neighbourhood of the goal of all our striving. After the usual arrangements for going into camp, at approximate local noon, of the Columbia meridian, I made the first observation at our polar camp. It indicated our position as 89°57'.

tion at our polar camp. It indicated our position as 89°57′. We were now at the end of the last long march of the upward journey. Yet with the Pole actually in sight I was too weary to take the last few steps. The accumulated weariness of all those days and nights of forced marches and insufficient sleep, constant peril and anxiety, seemed to roll across me all at once. I was actually too exhausted to realize at the moment that my life's purpose had been achieved. As soon as our igloos had been completed and we had eaten our dinner and double-rationed the dogs, I turned in for a few hours of absolutely necessary sleep, Henson and the Eskimos having unloaded the sledges and got them in readiness for such repairs as were necessary. But, weary though I was, I could not sleep long. It was, therefore, only a few hours later when I woke. The first thing I did after awaking was to write these words in my diary: "The Pole at last. The prize of three centuries. My dream and goal for twenty years. Mine at last! I cannot bring myself to realize it. It seems all so simple and commonplace."

Everything was in readiness for an observation at 6 P. M., Columbia meridian time, in case the sky should be clear, but at that hour it was, unfortunately, still overcast. But as there were indications that it would clear before long, two of the Eskimos and myself made ready a light sledge carrying only the instruments, a tin of pemmican, and one or two skins; and drawn by a double team of dogs, we pushed on an estimated distance of ten miles. While we travelled, the sky cleared, and at the end of the journey, I was able to get a satisfactory series of observations at Columbia meridian midnight. These observations indicated that our

position was then beyond the Pole.

Nearly everything in the circumstances which then surrounded us seemed too strange to be thoroughly realized; but one of the strangest of those circumstances seemed to me to be the fact that, in a march of only a few hours, I had passed from the western to the eastern hemisphere and had verified my position at the summit of the world. It was hard to realize that, in the first miles of this brief march, we had been travelling due north, while, on the last few miles of the same march, we had been travelling south, although we had all the time been travelling precisely in the same direction. It would be difficult to imagine a better illustration of the fact that most things are relative. Again, please consider the uncommon circumstance that, in order to return to our camp, it now became necessary to turn and go north again for a few miles and then to go directly south, all the time travelling in the same direction.

As we passed back along that trail which none had ever

As we passed back along that trail which none had ever seen before or would ever see again, certain reflections intruded themselves which, I think, may fairly be called unique. East, west, and north had disappeared for us. Only one direction remained and that was south. Every breeze which could possibly blow upon us, no matter from what point of the horizon, must be a south wind. Where we were, one day and one night constituted a year, a hundred such days and nights constituted a century. Had we stood in that spot during the six months of the arctic winter night, we should have seen every star of the northern hemisphere circling the sky at the same distance from the horizon, with Polaris (the North Star) practically in the zenith.

Antarctic Exploration.—The Antarctic regions are of opposite character to the Arctic regions. In the Arctic there exists a polar basin surrounded by an almost complete ring of continental land formed by the northern parts of Europe, Asia, and America; in the Antarctic there is on the contrary a vast continental land mass surrounded by the ocean. Attempts to conquer the South Pole had been baffled by what seemed to be an unsurmountable ice-barrier. The first navigator known to have sailed within the Antarctic circle was Captain James Cook (1728-1779).

WILKES.—In 1840 two expeditions, one French and the other American, reached the southern seas. The French expedition under d'Urville found traces of what they believed to be a continuous coast from 136° to 142° E., to which they gave the name of Adélie Land. The United States expedition under Wilkes cruised westward along the icebarrier toward Enderby Land nearly on the Antarctic circle. Wilkes's discovery of an Antarctic continent was made on January 19, 1840, one day before d'Urville sighted Adélie Land about four hundred miles farther west. The discovery was long doubted, and one of the charges against Wilkes at his court-martial was that he had fabricated this particular discovery; but the later explorations of Shackleton and Mawson (Yorkshiremen both) have fully corroborated Wilkes.

Ross.—Sir James Ross in 1841-1842 reached the highest south latitude that was attained in the nineteenth century, discovering Victoria Land with its twin volcanoes Erebus

(13,370 feet) and Terror.

SCOTT AND SHACKLETON.—Captain Robert Scott of the British navy started overland from near Mount Erebus in 1902; and Lieutenant (afterward Sir) Ernest Shackleton adopted the same base and similar methods, and reached a point 88° 23′ S. lat., that is to say 97 miles from the South Pole (1908–1909). He found the whole region was a tableland rising to upward of 10,000 feet above the sea and without any living thing. Had the supply of food not given out, Shackleton would undoubtedly have reached the Pole.

SOUTH MAGNETIC POLE.—One of the main achievements of the Shackleton expedition was the attainment of the South Magnetic Pole by Professor David, Dr. (afterward Sir) Douglas Mawson, and Dr. Mackay. Its position was determined as 72°25′S., 155° 16′ E., at an altitude of 7,260 feet.

It is of interest to note that Sir James Ross, serving under his uncle Sir John Ross, was the first to take magnetic observations at the North Magnetic Pole, in 1831, and that Mawson, serving under Shackleton, was the first to take magnetic observations at the South Magnetic Pole, in 1909.¹

Amundsen and Scott Reach South Pole.—A year or two later Amundsen and Scott made a race for the South Pole. Amundsen gained the coveted distinction on December 14, 1911. Five weeks later the Englishman Scott reached the Pole (January 18, 1912). But the glory of the achievement was mingled with the news of Scott's tragic death on the return journey. He encountered terrible blizzards; provisions ran short, and progress was slow, one of the number, Captain Oates, suffering agonies from frostbite. On March 17, Oates left the tent in a raging blizzard to meet certain death, hoping thereby to give his comrades a better chance. But his gallant sacrifice proved unavailing. Scott with his two remaining companions slowly and painfully struggled on a little longer, and on March 20 pitched their tent for the last time within eleven miles of one of their depots; but further effort was impossible. Scott's last mes-

¹R. E. Peary, "The North Pole" (1910).

¹W. S. Bruce, "Polar Exploration" (1911).

sage was dated March 25, 1912. Here the bodies were found by a search party on November 12th, and here the heroes were buried in their tent.

SIR DOUGLAS MAWSON.—The Australasian Antarctic expedition (1911-1914) led by Mawson made important scientific discoveries, and defined about 1,000 miles of the coast line of the Antarctic continent. Like the Scott expedition, the Mawson enterprise was not devoid of tragedy, but fortunately its leader was spared.

In company with Lieutenant Ninnis and Dr. Mertz, Mawson set out to explore a long stretch of coast when, on December 4, 1912, Ninnis with a dog-sledge carrying nearly all the provisions fell into a deep crevasse and was instantly killed. The two survivors pushed on; the six starving dogs were successively slain for food, and on January 7th Mertz succumbed. Mawson struggled on alone through the blinding blizzard, and after thirty-two days of the most terrible hardships he escaped from the very jaws of death and reached his base on February 8th. The Aurora had left only a few hours earlier. The vessel had already waited too long, and return was impossible; so for another year the explorer and a small party had to remain in the inhospitable wastes of Adélie Land. Polar adventure knows no more stirring experience than the following:

January 17th was another day of overcast weather and falling snow. Delay meant a reduction in the ration which was low enough already, so there was nothing to do but go

When I got away at 8 A. M. I found that the pulling was easier than it had been on the previous day. Nevertheless I covered only two miles and had to consider myself fortunate in not winding up the whole story then and there. This is what happened, following the account in my diary:

is what happened, following the account in my diary:

"Going up a long, fairly steep slope, deeply covered with soft snow, broke through lid of crevasse but caught myself at thighs, got out, turned fifty yards to the north, then attempted to cross trend of crevasse, there being no indication of it; a few moments later found myself dangling fourteen feet below on end of rope in crevasse—sledge creeping to mouth—had time to say to myself, 'so this is the end,' expecting the sledge every moment to crash on my head and all to go to the unseen bottom—then thought of the food uneaten on the sledge; but as the sledge pulled up without letting me down, thought of Providence giving me another chance." The chance was very small considering my weak condition. The width of the crevasse was about six feet, so I hung freely in space, turning slowly round.

A great effort brought a knot in the rope within my grasp, and, after a moment's rest, I was able to draw myself up and reach another, and, at length, hauled myself on to the

overhanging snow-lid into which the rope had cut. Then, when I was carefully climbing out on to the surface, a further section of the lid gave way, precipitating me once more to the full length of the rope.

Exhausted, weak, and chilled (for my hands were bare and pounds of snow had got inside my clothing) I hung with the firm conviction that all was over except the passing. Below was a black chasm; it would be but the work of a moment to slip from the harness, then all the pain and toil would be over. It was a rare situation, a rare temptation—a chance to quit small things for great—to pass from the petty exploration of a planet to the contemplation of vaster worlds beyond. But there was all eternity for the last and, at its longest, the present would be but short. I felt better for the thought.

My strength was fast ebbing; in a few minutes it would be too late. It was the occasion for a supreme attempt. New power seemed to come as I addressed myself to one last tremendous effort. The struggle occupied some time, but by a miracle I rose slowly to the surface. This time I emerged feet first, still holding on to the rope, and pushed myself out, extended at full length, on the snow—on solid ground. Then came the reaction, and I could do nothing for quite an hour.

The tent was erected in slow stages and I then had a little food. Later on I lay in the sleeping-bag, thinking things over. It was a time when the mood of the Persian philosopher appealed to me:

Unborn To-morrow and dead Yesterday, Why fret about them if To-day be sweet?

I was confronted with this problem: whether it was better to enjoy life for a few days, sleeping and eating my fill until the provisions gave out, or to "plug on" again in hunger with the prospect of plunging at any moment into eternity without the great luxury and pleasure of the food. And then an idea presented itself which greatly improved my prospects. It was to construct a ladder from alpine rope; one end of which was to be secured to the bow of the sledge and the other carried over my left shoulder and loosely attached to the sledge harness. Thus, if I fell into a crevasse again, it would be easy for me, even though weakened by starvation, to scramble out again by the ladder, provided the sledge was not also engulfed.

Notwithstanding the possibilities of the rope ladder, I could not sleep properly at all; my nerves had been so overtaxed. All night considerable wind and drift continued.

On the 19th it was overcast and light snow was falling. I resolved "to go ahead and leave the rest to Providence."

As they wallowed through the deep snow my feet and

As they wallowed through the deep snow my feet and legs kept breaking through into space. Then I went right under, but the sledge was held back and the ladder "proved trumps." A few minutes later I was down again, but I emerged again without much exertion, half-smothered with snow. Faintness overcame me and I stopped to camp, though only a short distance had been covered.

CENTRAL AMERICA AND WEST INDIES

(See Maps, pp. 92, 93, 113)

CENTRAL AMERICA.—The six small republics of Central America—Guatemala, Salvador, Honduras, Nicaragua, Costa Rica, and Panama—with the British crown colony of British Honduras, form a kind of land-bridge between North and South America. The whole country is a fertile plateau which descends to the oceans on either side by a series of terraces. In this region all kinds of tropical plants flourish; for Nature has been lavish in her products. There hunger is easily satisfied; life is mainly out-of-doors; and human habitations are low and of unstable character.

Through the courage and enterprise of Americans, unhealthful tracts have been made healthful, and the conquest of tropical disease stands to the abiding credit of the men and of their nation. Central America is now of peculiar interest to Americans, for a strip of United States territory runs through the centre of Panama, marking the greatest engineering achievement of the century—the Panama Canal.

AMERICAN CONQUEST OF THE TROPICS.—In all of the centuries from the discovery of America down to a comparatively few years ago, the hundreds of miles of coast from Colón to Belize and from Panama City to Salina Cruz have remained practically uninhabited. There are unmistakable signs that thousands of years ago other races thrived and reared great cities and splendid palaces in the fertile valleys along both coasts, but it is certain that their conquerors were unable to master the problems of sanitation and were compelled to take refuge on the high plateaus where now stand the capitals and cities of their descendants.

¹Sir Douglas Mawson, "The Home of the Blizzard" (1914).

No words can describe the horrors and dangers of the few squalid villages which once lay on the water edge of these jungles. Nature had infested these wastes with most of the enemies of mankind, but the ignorance and indifference of those who clustered there added new and more deadly men-aces. The normal death-rate of a typical Central American seaport, in the years prior to the advent of the banana industry, was not less than 150 annually out of a population of 1,000! This is fully ten times what it is now. It was almost sure death for an unacclimated foreigner to remain a week in these unsanitary surroundings. The wealthy citizen of Costa Rica or Guatemala who wished to go to London, Paris, or New York on business or pleasure approached the Pacific port from which he was to sail in fear and trembling, and thousands who longed to make such trips could not be induced to take the risk.

In 1871 there was not a mile of railroad in all of Central America, with the exception of a short line having its terminal at Puerto Cortez, Honduras. There were no dependable foot at Puerto Cortez, Honduras. or wagon roads from its capitals to either coast. there was no steamship service from the United States or from any port of the world to any port in Central America. There probably was no inhabited spot on earth more isolated. These republics were cut off not only by the sea, but also by barriers of pestilential lands, which the natives dreaded to cross and which the outside world could not enter.

To-day these former wildernesses constitute one of the ost productive agricultural sections of the globe. To-day most productive agricultural sections of the globe. the ships from all the world enter the beautiful harbours of Central America and land their passengers in ports which are as sanitary as those of Massachusetts. To-day most republics in Central America are served with well-managed and modernly equipped railway lines. The day is near at hand when one will be able to travel by rail from New York or San Francisco to Panama City in safety and luxury.

Who performed these miracles?
They were wrought by American citizens who had the imagination, the courage, and the ability to attack and conquer the countless dangers and problems of the tropical wilderness, and who did this through the organization of enterprises which helped lay the foundations of the United Fruit Company.1

A VISIT TO THE CANAL ZONE.—Colon is the leading port of entry in the tropics for the United Fruit Company. From two to half a dozen and sometimes more of its ships can be found at the docks of Colon. The Company has under construction a system of extensive and modern docks and buildings in Cristobal, a contiguous part of Colón, but in the territory of the administration of the Canal Zone. The cities of Colón and Panama proper are under the jurisdiction of the Republic of Panama, with certain restrictions mutually agreed on and observed.

There is much which is attractive in Colón and Panama City and along the Canal Zone, and the visitor can spend many days with profit along the Isthmus now spanned by the great Canal. The city of Panama is distinct in type from any town in Central America or along the north coast of South America. Panama City is an architectural expression of the Spaniard in South America. The Republic of Panama is now a part of Central America, but it must be kept in mind that Colon and Panama City were founded and reared by men whose traditions and arts were those of South America. Spanish blood and Spanish temperament dominated in the construction of these cities, and Panama City in particular stands as an interesting and pleasing type of urban construction for which the architecture of Castile is responsible, and which is blended only faintly with the conceptions of the native Indian races. The Indian dominates in all other parts of Central America and Mexico, and in many sections of South America, but Panama City typifies the pleasing attempt of Spanish art to master the architectural requirements of the tropics.1

SYNOPSIS OF CENTRAL AMERICA

(See Map, p. 113)

Central America is a mountainous isthmus separating the Caribbean Sea from the Pacific, narrowing and becoming lower at its junction with South America. The greatest altitudes are on the Pacific coast, where there are many active and extinct volcanoes. The principal lowlands are in Yucatan peninsula and the alluvial plains on the Atlantic coast. The largest lake is Lake Nicaragua, from the floor of which rises an active volcano; it is drained by the San Juan to the Atlantic. The temperature varies with the altitude, the climate among the hills being well adapted for Europeans.

Central America consists of the six republics of Guatemala, Salvador, Honduras, Nicaragua, Costa Rica, and Panama (until 1903 part of Colombia); while on the east of Guatemala is British Honduras, a colony of Great Britain.

Britain.

GUATEMALA

Guatemala, the most northerly of the Central American states, has an area of 47,424 square miles and a population of 2,000,000. The republic is divided into 23 departments and is traversed from west to east by a mountain chain, containing several volcanic summits rising to 13,000 feet above the sea; earthquakes are frequent. The country is well watered by numerous rivers; the climate is hot and unhealthful near the coast, but more temperate and

The chief products are coffee, bananas, sugar, timber, rubber, and hides. Minerals are found, but are little worked. About 450 miles of railway are open. There are 3,750 miles of telegraph line in operation. (New) Guatemala (pop. 125,000) is the capital. The chief ports are Champerico and San José on the Pacific; Livingston and Puerto Barrios on the Caribbean.

SALVADOR

Salvador extends along the Pacific coast for 170 miles, with a general Salvador extends along the Pacific coast for 170 miles, with a general breadth of 43 miles; area 7,225 square miles; population 1,161,000. The republic is divided into fourteen departments. The chief products are coffee, indigo, tobacco, sugar, silver balsam (known as balsam of Peru), rice, hides, cedar, and fustic (a valuable dyewood). San Salvador (pop. 66,800) is the capital. A British railway about 100 miles in length connects Acajulla with the capital and Santa Ana (pop. 48,000), the coffee centre, and another line (40 miles) runs from the port of La Union to San Miguel. Earthquakes are frequent, and the capital (now rebuilt) was entirely destroyed by one in 1873; but the country has of late years experienced comparative immunity.

Honduras, the middle state of Central America, has an area of 44,275 square miles, with a population of 553,000. It has a coast-line of nearly 400 miles on the Caribbean Sea, but only about 40 miles on the Gulf of Fonseca. Honduras is traversed by the Cordilleras. The soil is very fertile. The chief products are mahogany, cattle, fruit, cotton, tobacco, sugar, rubber, rice, indigo, coffee, hides and skins, sarsaparilla, fustic, cedar, and Lima wool. The mineral wealth is great; while the forests are practically inexhaustible, but there is a lack of communications and transport. Tegucigalpa (pop. 29,000) is the capital. The chief ports are Amapala on the Pacific, and Trujillo, Puerto Cortés, Omoa, Roatán, and La Ceiba on the Caribbean Sea.

NICARAGUA

Nicaragua is the largest state of Central America, with a long seaboard Nicaragua is the largest state of Central America, with a long seaboard on both the Atlantic and the Pacific; area 51,660 square miles; population 600,000, of whom about three-quarters are mixed blood and the rest Indians, besides the Mosquitos, who are mostly in a savage state. The chief products are coffee, bananas, rubber, gold, hides, and cattle. German capital is largely invested in coffee estates. There are 172 miles of railway open, and 1,600 miles of telegraph. Managua (pop. 35,000) is the capital. Other towns are León (65,000), Granada (20,000), and Matagalpa (16,000).

COSTA RICA

Costa Rica lies between Nicaragua and the Republic of Panama; area 23,000 square miles; population 420,000. The chief products are bananas, coffee, gold, and silver, hardwoods, cacao, rubber, hides, and skins. About 400 miles of railroad are open, and about 1,700 miles of telegraph. San José (pop. 35,000) is the capital. The chief ports are Limón, on the Atlantic, through which the whole of the important banana trade with the United States and England is done, as well as the greater part of the other exports and imports, and Puntarenas on the Pacific.

PANAMA

(See Map, pp. 114-115)

Panama formed one of the nine departments of Colombia, but revolted in 1903 and established a separate government. The area of the republic is 31,890 square miles; the population is about 400,000. A railway 47 miles in length connects the two oceans. The isthmus, which long presented a barrier to trade, is now intersected by the Panama Canal. A strip of territory 10 miles wide known as the Canal Zone was granted to the United States for the purposes of the Panama Canal; it does not include the cities of Panama and Colón. Panama (pop. 60,000), on the Pacific coast, is the capital. Colón (pop. 26,000) is the chief city on the Atlantic coast. The chief product is the banana. Tobacco and sugar are growing in importance. Cattle-raising is carried on, and hides are exported. See p. xxxi.

BRITISH HONDURAS

British Honduras in Central America is 174 miles in length and 68 miles in breadth. It is bounded on the north by the Yucatan peninsula, on the west and south by Guatemala, and on the east by the Caribbean Sea. Its

¹F. U. Adams, "Conquest of the Tropics" (1914).

area is about 8,598 square miles with a population of 41,000. The climate generally is damp and hot, but not unhealthful. The country consists chiefly of forest, with savannas and so-called "pine-ridges," which are open sandy plains covered with a wiry grass and dotted with pine trees, affording fair runs for cattle. The ground is level and swampy along the coast-line. The chief products are mahogany, logwood, and other natural woods, sugar, rubber, cacao, and fruit. Coco trees grow wild in the bush. The country is governed as a British crown colony. Belize (pop., 11,000) is the capital.

WEST INDIES (See Maps, pp. 92, 93)

(See Maps, pp. 92, 93)

The West Indies, so named in 1492 by Columbus, who believed the islands to form the western limits of India, are a number of islands and islets which separate the Atlantic from the Gulf of Mexico and the Caribbean Sea. The archipelago is divisible into three main groups: (1) Greater Antilles, which contain the largest islands, Cuba and Haiti (comprising the republics of Haiti and Dominican Republic) being independent; Jamaica and its dependencies, British; and Porto Rico, a dependency of the United States. (2) Bahamas, which are entirely British. (3) Lesser Antilles, which are divided among the United Kingdom, France (Guadeloupe, Martinique, and part of St. Martin), the Netherlands (Curaçao, Buen Ayre, Aruba, St. Eustatius, Saba, and part of St. Martin), Venezuela, and the United States (Porto Rico and the Virgin Islands). The total area of the archipelago is nearly 100,000 square miles, of which 72,000 square miles are independent, 12,300 British, 3,890 United States, 1,350 French, 430 Netherlands, and 90 Venezuelan.

The staple product is sugar, though owing to the competition of European beet sugar and to other causes it is not so great a source of wealth as formerly. Molasses and rum, spices, arrowroot, and forest products are also profitable. The trade of the archipelago is principally with the United States. For Cuba, Haiti, and Dominican Republic, see below.

BRITISH WEST INDIES

	ISLA	ND	s 		_	_			_	CAPITAL	(sq. miles)	POPULATION
GREATER ANTILLES										771		044 600
Jamaica		٠	•	٠	•	٠	٠	٠	٠	Kingston Georgetown	4,450	855,600
Cayman Islands BAHAMAS:	•	٠	•	•	•	•	•	•	•	Georgetown	223	3,000
Bahamas										Nassau	4,400	56,000
Turks and Caicos										Grand Turk	170	5,700
LESSER ANTILLES:										D		
Barbados		٠	٠					٠		Bridgetown	166	196,000
Leeward Islands										St. John's	108	31,500
Antigua Barbuda	•	٠	•	•	٠	٠	٠	٠	•			750
St. Christopher or	· ¢.	Ŕ:	***	•		•	•	•		Basseterre	75 68	26,000
Nevis	DI.	1/1	Les	٠	•	•	•	•	•	Charlestown	50	13,000
		۰	•	•	:	:		•	•	Charlestown	35	4,000
Dominica							•	•	•	Roseau	300	34,000
Montserrat			:		•	•	•	•	•	Plymouth	33	12,200
Virgin Islands .	-	-	:		•	٠	٠	•	•	Road Town	58	5,600
Windward Islands.		•	•	٠	•	•	•	•	•	1,000		3,000
Grenada										St. George's	134	67,000
		•	Ť.	Ċ	Ċ	Ċ	•	Ĭ.	i.	Port Castries	233	48,700
				·	Ċ	Ĭ.			Ċ	Kingstown	150	42,000
			-									
Trinidad and Toba	go:											
										Port of Spain	1.750	309,500
Tobago										Scarborough	114	20,750
Various Islets											31	
Totals											12,550	1,733,900

(See Map, p. 95)

Cuba, the "Pearl of the Antilles," has an area of 44,178 square miles and a population of 2,272,000. It is the largest island of the West Indies, and is nearly as large as Pennsylvania. About two-thirds of the inhabitants are of Spanish descent. Cuba is mountainous in the east, hilly in the centre, and generally level in the west and southwest. The coasts are rocky; but there are many fine harbours. The chief products of the island are sugar and tobacco. Timber and fruits also are increasingly exported, and there are valuable iron, manganese, and copper mines.

The principal mining districts are in Oriente province where the Sierra

The principal mining districts are in Oriente province, where the Sierra Maestra was for centuries the largest copper-producing centre in the world. Of non-metallic minerals petroleum and asphalt are found, and the former

is exploited to some extent.

The only manufactures of any importance are connected with the tobacco and sugar cane industries, cigars and cigarettes being made in great quantities in the capital, and sugar, rum, and whisky in the neighbourhood of the plantations. Almost all the imports are manufactures. The chief trade is with the United States.

with the United States.

There are 2,500 miles of railway, and over 5,000 miles of telegraph.

Havana (pop., 297,000)—called in Spanish, San Cristobal de la Habaña—
is the capital and largest city of Cuba. It lies almost due south of Key
West, Florida, from which it is distant 93 miles. Havana is the chief commercial centre of the West Indies. Other towns are Santiago (45,000),
Matanzas (37,000), Cienfuegos (30,000), Camaguey (29,000), Cardenas (24,000).

The Isle of Pines (Isla de Piños) also belongs to Cuba.

HAITI (See Map, p. 93)

The republic of Haiti is the western or French portion of the island of Haiti, which next to Cuba is the largest of the West India Islands. The area of the republic is 10,000 square miles; the population, 2,029,000. The mountains are thickly wooded, and capable of cultivation almost to their summits. Its harbours, especially Port-au-Prince, offer great facilities to foreign commerce. The chief products are coffee, cotton, cocoa, sugar, logwood, gums, and honey. Its chief trade is carried on with the United States, the British Empire, France, and Germany. Its commercial prosperity has been almost annihilated by repeated revolutions. Port-au-Prince (pop., 100,000) is the capital.

DOMINICAN REPUBLIC

(See Map, p. 93)

The Dominican Republic, or Santo Domingo, is the oldest European settlement in America, having been founded in 1496 by Bartolomeo Columbus, who named it *Hispaniola*. The republic has an area of 18,755 square miles, with a population of about 700,000. Sugar and cocoa are the most important crops; the other products are coffee, tobacco, mahogany and other woods, wax, honey, bananas, hides, fustic, logwood, and turtle-shell. The bulk of the trade is in the hands of United States. There are 150 miles of railway. Santo Domingo (pop., 25,000) is the capital. The country is in a very backward condition, and its natural resources are undeveloped, The customs duties are the main source of revenue, and are controlled by the United States Government.

For United States possessions in the West Indies, see under *United States*, p. 340. The Dominican Republic, or Santo Domingo, is the oldest European

SOUTH AMERICA

(See Maps, pp. 122-128)

Its Darkened Past.—South America everywhere bears the impress of the Latin races to whom the world is indebted for the discovery and exploration of the New World. From the time of Columbus, who reached the mouth of the Orinoco in his third voyage (1498), a stream of Portuguese and Spanish adventurers set across the Atlantic to the land of romance and fortune. Pious men were no less eager to visit the idolatrous millions; while fierce and imperious spirits followed in their train, eager to show their Christian ardour by shedding blood like water. Imagination ran riot. Grave hidalgos, learned geographers, and veteran soldiers were drawn to the land where gold and precious stones were thought to be as plentiful as the pebbles on the seashore. Thousands left their bones in the trackless forests or on barren wastes over which they had toiled in search of El Dorado. Every vessel that returned to Europe brought specimens of real riches, so it is no wonder that their heads were turned. But the toils and hardships of these early adventurers are as nothing when we recall their inhumanity. The Spaniards outdid the savages in their deeds of cruelty as they hacked

their way through flesh and blood to the pictured gold beyond.

The continent was overrun with amazing rapidity. Spain and Portugal divided practically the whole of South America between them, Portugal taking Brazil while Spain took the remainder. The history of colonization is blackened by the deeds of the Spaniards in the New World. The natives were enslaved and treated with fiendish inhumanity by their Spanish taskmasters. It is a pitiable story of wrongs, tortures, and sufferings. The very cannibals were known to loathe the flesh of such monsters in human shape.

But while enslaving others, the Spanish settlers took the first opportunity to throw off the royal yoke themselves; and early in the nineteenth century, when Spain was in difficulties from Napoleon's conquests, the colonies proclaimed their independence. The revolution in Portuguese Brazil took a different form, issuing as a constitutional monarchy with the title of empire, which toward the end of the century transformed itself into a republic. But such republics without republicans are a mere caricature of democracy, and it is not surprising that the southern republics have been torn by revolutions, the ballots turning readily to bullets, changes of government to massacres, presidents to dictators, and dictators to tyrants.

Its Brighter Future.—Yet South America is pregnant with economic possibilities. Its natural resources are enormous. We are apt to forget that it is South America which has given the world so many useful products—the potato, pineapple, tomato, cocoa, maize, tobacco, the guava and other fruits, and the manioc or cassava from which we get tapioca. But as yet the vast resources of the continent have been but skimmed. The future is full of promise. American and European capital is being more and more attracted; and when the whole of the South American republics have become republican in fact as well as in name, and when security of life and property is fully assured, then will these Latin republics take their place among the great commercial nations of the world. The A. B. C. Republics (Argentina, Brazil, and Chile) have already travelled far on this desirable path, and their example and influence should do much to foster a similar worthy ambition on the part of the sister republics.

A LAND OF POSSIBILITIES.—We North Americans, who live in a vast continent that lies nearly all in the temperate and cooler zones, scarcely realize that South America is fourfifths tropical. Fields of wheat and oats are familiar to us; but in South America are scarcely seen outside of Argentina and Chile, except in high, cool valleys. South America might be called a banana country.

Bananas grow from Paraguay to Mexico; wheat and oats flourish only in the tapering tip of the southern continent; and this gives to Argentina and Chile a peculiar interest among South American countries as the homes of vigorous, energetic peoples competent to rule themselves. To Argentina and Chile we may add Uruguay and the highlands of southeastern Brazil, and also the limited areas of the tropical Andes, whose altitude gives them cool climates. of the continent, the vast interior, is the land of the siestathe land to be developed and administered by peoples of the

temperate zones.

The great task and obligation of Argentina, southern Brazil, and Chile—the A. B. C. powers—is to guide the development of the tropical Americas, through the exercise of wise statesmanship, toward stability, peace, and prosperity. Rio de Janeiro, on the Atlantic coast, and Antofagasta, on the Pacific, mark the southern limit of the tropics, and thence southward the southern continent narrows rapidly to the point of Cape Horn. The equivalent distance in North America is from Florida to Labrador, or from oranges to reindeer moss. Florida and Rio are both renowned for their oranges, and Cape Horn shares with Labrador a most inhospitable reputation; but it is more like Scotland than Labrador.

The southernmost land, tapering southward between the oceans, is nowhere so cold as the broad expanse of North America is in similar latitude, and Tierra del Fuego, a region of bogs, fogs, and snow squalls, is a congenial home for Scotchmen and long-wooled sheep.

North of the Rio de la Plata and between the Atlantic and the Paraná-Paraguay basin stretches the most beautiful and healthful region of semi-tropical South America. Here are the coffee plantations of São Paulo, Brazil, the most productive of the world; here the German settlements of Santa Caterina and Rio Grande do Sul constitute the isolated Teutonic colonies; here Uruguay and Paraguay form buffer states between the great rivals, their neighbours, and here are included the rich Argentine Commonwealths of Entre Rios and Corrientes.

* Equivalent in area to the region which stretches northwest from the Alleghanies to the Mississippi and the Great Lakes, equal to the States of Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, and Illinois in extent, beautiful in upland landscape of verdant hills and valleys, this territory

invites a dense population whose prosperity would be assured

under a good government.

But divided as it is by arbitrary political boundaries, misgoverned with various degrees of misgovernment, it lies inert. The failure of individual and governmental initiative, the isolation of the frontier, where weak settlements face the forest, the lack of roads and railroads leave the interior still a part of the wilderness.1

SYNOPSIS OF SOUTH AMERICA

(See Maps, pp. 120-128)

South America forms the southern half of the New World; it is joined to North America by the Isthmus of Panama. It is a vast peninsula of a somewhat triangular form, with an area of 6,600,000 square miles—nearly twice the size of Europe. Its greatest length is 4,500 miles, and its greatest breadth 3,200 miles. South America is bounded on the north by the Caribbean Sea, on the east by the Atlantic, on the south by the Antarctic, and on

the west by the Pacific.

Coast-line. Its coast-line is very short in comparison with the size of the continent, and is estimated at 12,000 miles—about half that of North

CAPES. Point Gallinas, the most northerly point of South America; Cape St. Roque and Cape Frio, on the east of Brazil; Cape Horn, the most southerly point of South America; Cape San Francisco and Point Pariña, on the west.

INLETS.—Gulf of Darien and Gulf of Venezuela on the north; the mouths of the Amazon and the Plata, Blanca Bay, San Matias Gulf, and Gulf of St. George, on the east; Gulf of Panama, Gulf of Guayaquil, and Gulf of Peñas

There is only one strait—the Strait of Magellan between the mainland and Tierra del Fuego.

Islands.—The chief group is Tierra del Fuego ("Land of Fire") on the south. The largest island is Marajo at the mouth of the Amazon. The Falkland Islands lie northeast of Tierra del Fuego. The Galapagos Islands ("Turtle Islands") are a volcanic group on the equator, off the west coast—BUILD.—The build of the continent consists of a great mountain chain in the west, one long plain (from the mouth of the Orinoco to the mouth of the Plata), and minor ranges in the east. The two principal slopes are a short steep slope on the west to the Pacific, and a very long and gradual slope on the east toward the Atlantic.

South America possesses certain features in common with North America:

South America possesses certain features in common with North America:

(1) Both continents have their greatest length from north to south. (2) Both continents taper to the south. (3) The west coasts of both continents are very regular and almost straight. (4) The highest ranges of mountains in both lie in the west—and very far to the west. (5) The subordinate ranges in both lie in the east. (6) Each has its short slope to the west, and its long slope to the east. (7) The largest rivers in each flow to the east. (8) Both have vast plains and enormous river-basins.

MOUNTAINS—There are three highlands, the great Cordillera, or Andet

(8) Both have vast plains and enormous river-basins.

MOUNTAINS.—There are three highlands, the great Cordillera, or Andes Mountains, extending the whole length of the western coast, and the Guiana Highlands and the Brazilian Highlands in the east.

The Andes are remarkable for their continuity; their great height—an average about 12,000 feet; the parallelism of their chains, when they are double or triple; their mountain-knots; and the large number of volcanoes.

The Andes consist of three main sections: (1) the Southern Andes (highest double or triple; their mountain-knots; and the large number of volcanoes. The Andes consist of three main sections: (1) the Southern Andes (highest summit, Aconcagua, 23,080 feet) is a single chain which runs up to the Tropic of Capricorn; (2) the Central Andes (highest summits, Illampu, 21,500 feet, Illimani, 21,192 feet) consists of two parallel chains, which run up to about 10°S. lat.; and (3) the Northern Andes (highest summits, Chimborazo, 20,498 feet, Cotopaxi, 19,613 feet, and Antisana, 19,335 feet) forms a triple range.

The broadest table-land is that of Bolivia, in which is situated Lake Titicaca, at an altitude of 12,500 feet.

Plans.—The whole continent from the mouth of the Orinoco to the

PLAINS.—The whole continent from the mouth of the Orinoco to the mouth of the Plata may be regarded as one vast plain. But this plain may be divided into three parts: the Orinoco Plain—the most level parts of which are called the Llanos; the Plain of the Amazon (or the Selvas); and the La Plata Plain, the most level parts of which are called Pampas. There is only one desert of any size in South America—the Desert of Atacama, on the Pacific coest.

one desert of any size in South America—the Desert of Atacama, on the Pacific coast.

RIVERS.—The three greatest rivers of South America are the Orinoco, the Amazon, and the Plata or Plate.

The Orinoco is the river of the north; it is 1,550 miles long and falls into the sea by a mighty delta. Its basin contains nearly 300,000 square miles. It is connected with the Rio Negro by a natural canal.

The Amazon is the river of the centre; it is the largest river in the world, and has the largest basin (2,000,000 square miles—more than half of Europe). It is about 3,400 miles in length. The Amazon has numerous tributaries, which are themselves great rivers. Its chief northern tributary is the Rio Negro; its chief southern tributary is the Madeira. The mouth of the Amazon is 200 miles wide, and its current is felt 150 miles out at sea.

Owing to the melting of the snows in February, and the rains which mainly occur at this time on the slopes of the Andes, the Amazon has a marked flood season, reaching its maximum in June, when it overflows its banks.

In 1913-14 Colonel Roosevelt travelled over a great part of the Amazon regions of Brazil, making valuable contributions to geographical and scientific knowledge. The maps of this region were proved to be most inaccurate. Roosevelt discovered a hitherto unknown tributary of the Amazon, and this new river was named the *Theodoro* by the Geographical Society at

Bailey Willis, in the National Geographic Magazine (August, 1916).

The Rio de la Plata, or River Plate, is in fact only the gulf-like estuary of the three great rivers Paraguay, Paraña, and Uruguay. It is the widest river in the world, and gives more water to the ocean than any other South American river except the Amazon.

Among the minor streams, the San Francisco is the most important.

CLIMATE.—Two thirds of South America lie within the tropics, and three fourths lie within the region of the trade winds. South America may be called the continent of moist heat. The cooler parts are to be found in the high lands and in the narrow triangular part which lies south of 30°. See Climate Map of South America, pp. 122, 123.

high lands and in the narrow triangular part which lies south of 30°. See Climate Map of South America, pp. 122, 123.

VEGETATION.—The vegetation is luxuriant. The most characteristic plants are palms, flowering trees, and lianas. The most valuable forest trees are the greenheart and the mora—both excellent for shipbuilding. The cinchona tree, the bark of which yields quinine, is found on the Andean slopes; and the largest lily in the world—the Victoria Regia—floats on the quiet lakes of the Amazonian labyrinth of waters. The sugar cane, the coffee plant, the cacao tree, the coca, the manioc, tobacco, bananas, and other tropical and sub-tropical fruits are produced in great abundance. The vegetable wealth of South America infinitely surpasses that of any other continent. See Vegetation Map of South America, p. 124.

MINERALS.—South America, p. 124.

MINERALS.—South America is rich in minerals. Along the line of the Andes, silver, gold, copper, tin, and mercury are found. In Bolivia are the

Andes, silver, gold, copper, tin, and mercury are found. In Bolivia are the celebrated silver mines of Potosí. The continent is also rich in precious stones; diamonds are found in Brazil, emeralds in Colombia. See *Economic*

Map of South America, p. 125.

Animals.—South America is the home of reptiles, insects, and brilliantly coloured birds; it is also noted for its toothless animals, the chief of which are the sloth and the anteater. The mammals are small and weak: instead of the elephant we find the pig-like tapir; instead of the camel and dromedary, the llama and alpaca; instead of the lion, the cowardly puma; and instead of the tiger, we find the jaguar. The forests abound with monkeys. Among birds, South America includes the largest and ugliest as well as the smallest and most graceful—the condor and the rhea; the brilliant toucan and the tiny humming-bird. humming-bird.

POLITICAL DIVISIONS.—South America consists of ten republics, modelled on that of the United States. The only foreign possessions are British Guiana, French Guiana, and Dutch Guiana.

SOUTH AMERICAN REPUBLICS

COUNTRY		(sq. miles)	POPULATION	CAPITAL	POPULATION OF CAPITAL		
ECUADOR PARAGUAY		1,212,000 570,000 3,220,000 291,000 473,000 120,000 173,000	7,000,000 2,200,000 21,000,000 3,200,000 4,000,000 1,300,000 800,000	Buenos Aires Sucre Rio de Janeiro Santiago Bogotá Quito Asunción	1,576,000 24,000 1,128,000 408,000 100,000 60,000 80,000		
Peru Uruguay Venezuela .	:	700,000 72,200 364,000	5,000,000 1,100,000 2,700,000	Lima Montevideo Caracas	175,000 310,000 85,000		

ARGENTINA

Argentina, or the Argentine Republic, comprises 14 provinces and 10 territories, with an extensive seaboard on the east coast of South America. The climate is temperate and healthful. The chief products are wheat, maize, oats, linseed, sugar, wool, hides, cattle, sheep, and horses. The export of frozen beef and mutton is an important industry. The exports are made up entirely of pastoral and agricultural products, with the exception of quebracho (a tree with a bright red bark, which is used for dyeing), copper, manganese, and wolfram. There are 22,000 miles of railroad, chiefly in the hands of British companies. There are about 42,000 miles of telegraph lines.

CHIEF TOWNS OF ARGENTINA

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TOWN	POP, IN THOUSANDS	PROVINCE	TOWN	POP. IN THOUSANOS	PROVINCE							
AVELLANEDA BAHIA BLANCA BUENOS AIRES CHIVILCOY CONCORDIA COROOBA* CORRIENTES*	106 62 1,576 23 26 135 29	Sante Fé Buenos Aires Buenos Aires Buenos Aires Entre Rios Córdoba Corrientes	Mendo2a* Paraná* Rio Cuarto Rosario Salta* Santa Fé* Santiago*	59 36 30 223 34 60 23	Mendoza Entre Rios Córdoba Santa Fé Salta Santa Fé Santa Fé Santiago del							
La Plata*	119	Buenos Aires	Tucumán*	100	Estero Tucuman							

*Capital of province.

CAPITAL. - Buenos Aires. Population 1,576,000.

BOLIVIA

Bolivia has no seaboard, having lost her own to Chile during the war of 1875-1880. By a treaty of 1904, Bolivia was given free transit through Chile to the Pacific ports. The mineral productions are very valuable; the silver mines of Potosi are believed to be almost inexhaustible; while gold, partly dug and partly washed, is obtained on the Eastern Cordillera of the Andes; tin, copper, lead, antimony, wolfram, bismuth, salt, and sulphur are also found. Its agricultural produce consists chiefly of rice, barley, oats, maize, cotton, coca, indigo, rubber, cacao, potatoes, the choicest fruits, cinchona bark, medicinal herbs, etc., which with tin, gold, silver, and copper are its principal exports. Sucre (population 24,000) is the capital.

There are about 800 miles of trunk lines of railway and 2,000 miles of telegraph wire. There is direct railway communication with La Paz from Antofagasta (Chile).

BRAZIL

Brazil is the most extensive state of South America. Until 1889 it was an empire under Emperor Pedro II. of the house of Braganza. There are 42 ports along the coast, of which the principal is Rio. Brazil is unequalled for the number and extent of its rivers.

Chief Products.—The chief products of the country are coffee and rubber: the rubber comes from the more northern provinces, especially the valley of the Amazon, and is shipped from Pará and Manaos; coffee coming chiefly from Rio de Janeiro, Minas, São Paulo, and Esperito Santo. Tobacco and cocoa are grown largely, especially in Bahia. Cotton is being largely cultivated for export, and is being used for home manufactures. Sugar cane is grown in large and increasing quantities in the northern provinces, Pernambuco being the centre of the sugar-producing zone. Maize, beans, cassavaroot, and nuts are very generally cultivated; also, in some parts, wheat and other European cereals. Cattle-raising is an important industry.

The minerals are very considerable and valuable, comprising gold, silver, iron, diamonds, topazes, and other precious stones. Its forests are immense, abounding in the greatest variety of useful and beautiful woods adapted for dyeing, cabinet work, or shipbuilding; among these are mahogany, logwood, posewood, brazilwood, etc.

There are abount the comprise of railread, and to occupilo of talegraph.

rosewood, brazilwood, etc.

There are about 17,000 miles of railroad, and 40,000 miles of telegraph

CHIEF TOWNS OF BRAZIL

	1	rov	VN				:	POP. IN THOUSANDS	STATE
BELEM* MACEIÓ* MANÃOS* NICTHEROY* PARAHYBA* PERNAMBUCO* PORTO ÁLEGRE* RIO DE JANEIRO SANTOS SÃO PAULO*				 	 	 		200 33 50 35 32 150 100 1,129 35 450	Paría Alagoas Amazonas Rio de Janeiro Parahyba Pernambuco Rio Grande do Sul Rio de Janeiro São Paulo São Paulo

*Capital of province.

CAPITAL. Rio de Janeiro. Population 1,128,000.

CHILE

Chile, a state of Spanish origin, lies between the Andes and the shores of the south Pacific. Its extreme length is about 2,800 miles, with 2,485 miles of coast-line. There are no rivers of great size, and none of them are of much service as navigable highways. In the north the country is arid. Chile is divided into 21 provinces and 3 territories. Agriculture and mining are the principal occupations. Wheat, maize, barley, oats, beans, peas, lentils, wines, tobacco, flax, hemp, Chile pepper, and potatoes are produced extensively; the vine and all European fruit trees flourish. A considerable number of live stock (cattle, sheep, horses, goats, and pigs) is raised. The mineral wealth is great, the country being rich in copper ore; some gold mines have been discovered. The rainless north yields nitrate of soda, iodine, borate of soda, gold and silver, a large number of mines yielding both being in actual work in the provinces of Atacama and Antofagasta; the centre, copper and silver; and the south, iron and coal. There are smelting works for copper and silver, tauneries, corn and saw mills, starch, soap, biscuit, rope, cloth, cheese, furniture, candle, and paper factories, breweries, and distilleries, and the domestic industry furnishes cloth, embroideries, baskets, and pottery. There are about 5,300 miles of railroad open, and over 18,000 miles of telegraph.

CHIEF TOWNS OF CHILE

TOWN	POP. IN TUOUSANUS	PROVINCE	TOWN	POP. IN THOUSANDS	PROVINCE
Antofagasta* Chillán* Concepción* Curicó* Iquique* Santiago*	37 40 72 20 46 408	Antofagasta Nuble Concepción Curicó Tarapacá Santiago	TALCA* TALCAHUANO TEMUCO* VALDIVIA VALPARAISO* VIÑA DEL MAR	39 21 27 20 181 31	Talca Concepción Cautín Valdivia Valparaiso Valparaiso

*Capital of province.

CAPITAL.—Santiago. Population 408,009.

COLOMBIA

Colombia lies in the extreme northwest of the continent, having a coast-line on the Atlantic and the Pacific. The country is intersected by the Western, Central, and Eastern Cordilleras. The Eastern range consists of a series of vast table-lands, which have a temperate and healthful cumate. The chief products are coffee, cotton, bananas, and in some parts tobacco, wheat, and other cereals. Its forest trees include cedar, mahogany, fustic, and other dyewoods and medicinal plants. Its mineral productions are gold, silver, platinum, copper, coal, lead, iron, and emeralds. Its manufactures, for home consumption, consist of cottons and woollens. Coffee, precious metals, rubber, and hides are the chief exports. Bogotá (population 100,000) is the capital. series of vast table-lands, which have a temperate and healthful climate.

There are only about 650 miles of railroad open, and 9,000 miles of tele-

ECUADOR

Ecuador is divided into 15 provinces and one territory. It contains extensive forests, and the cinchona bark tree is common. The chief products are cocoa, rubber, coffee, cotton, sugar, vegetable ivory, Panama hats, and cattle. Gold, quicksilver, lead, iron, copper, and sulphur exist; but the mineral resources need development. Rubies and emeralds are occasionally found. Guayaquil (pop. 60,000) is the chief port; other towns are Quito (pop. 60,000), the capital; Cuenca, (pop. 25,000). The Galapagos Islands (2,400 square miles) belong to Ecuador.

PARAGUAY

Paraguay is an inland state. Its chief products are tobacco, oranges, timber, yerba maté (Paraguay tea), cassava (manioc), rice, sugar cane, groundnuts, maize, quebracho extract, and hides. Stock raising is the chief industry. A British railway, 232 miles in length, connects Paraguay with the Argentine system. Asunción (pop. 80,000) is the capital.

PERU

Peru is a maritime state bounded on the north by Ecuador and Colombia, on the east by Brazil and Bolivia, and on the south by Chile and Bolivia. It is traversed throughout its length by the Andes. The coast region is largely sandy desert; but the valleys are very fertile, and the mountains are rich in minerals, including silver, quicksilver, copper, and coal (of inferior quality). There are important beds of petroleum, while gold is worked in many districts. The medicinal products of the eastern provinces are of great value, comprising cinchoua, or Peruvian bark, sarsaparilla, copaiba, Rubber is an important product of the country. coffee are grown on a small scale. Sugar is the staple agricultural product. The Lobos and other islands on the Pacific coast provide guano. About 1,700 miles of railroad are open. Lima (pop. 175,000) is the capital.

Uruguay lies on the east coast of the Rio de la Plata, and consists mainly of undulating grassy plains. There are no heights above 2,000 feet. Uruguay is essentially a pastoral state, and supports large herds of cattle and

sheep. Wheat, barley, and maize are cultivated. Gold also exists. The exports are almost entirely animal and agricultural products. There are about 1,600 miles of railway open, all in British hands, and about 5,000 miles of telephones. *Montevideo* (pop. 310,000) is the

VENEZUELA

Venezuela lies on the north of South America, being bounded on the west by Colombia, on the south by Brazil and Colombia, and on the east by the Atlantic and British Guiana. The chief products are coffee, cacao, balata gum, goats' skins, cattle, and hides. The United States is its chief customer. There are about 550 miles of railroad open. Caracas (pop. 85,000) is the capital.

BRITISH GUIANA

British Guiana on the northeast coast of South America has an area of 90,300 square miles with a seaboard of more than 300 miles; population 310,000. The chief products are sugar, rum, gold, diamonds, timber, and balata. The 10,000 aboriginal Indians are principally occupied in hunting, fishing, and raising crops of cassava. Georgetown (pop. 49,000) is the capital.

FRENCH GUIANA

French Guiana has an area of about 32,000 square miles with a population of 49,000. Placer gold-mining is the most important industry. Iron, silver, and phosphates are also worked. The exports also include cocoa, various woods, and hides. Cayenne (pop. 14,000), on Cayenne Island, is the capital.

DUTCH GUIANA

Dutch Guiana or Surinam has an area of 46,000 square miles with a population of 89,000. The products include cacao, sugar, bananas, coffee, rice, maize, rum, and molasses. Gold, chiefly alluvial, is also worked Paramaribo (pop. 35,000) is the capital.

NORTH AMERICA

THE NEW WORLD DISCOVERED .- Four hundred and twenty-five years ago-so short a time that the lives of six men might easily stretch across it—the wisest men who looked over the ocean from the shores of western Europe imagined that no greater obstacle than miles of sea lay between themselves and eastern Asia. If the theory were true, and the ancient maps reliable, then by sailing continuously westward the bold navigator would at last reach India. It was this faith which inspired Columbus to make his adventurous voyage in 1492; and the name of West Indies bears witness to his mistake. The reason men were so anxious to find a new route to India was because of the old Mediterranean route being barred by the Turks, who had taken Constantinople in 1453 and subsequently conquered Egypt.

Still further back in history, when the Northmen were winning new lands by steel and daring, their navigators are said to have struck across the North Atlantic till they came to the shores of "Vinland." The deeds of Leif Ericsson, who first discovered this "Vinland" or Wineland where the wineberries are abundant, are sung in the old Scandinavian sagas. The story may be true, though neither history nor archæology confirms the legend. The secret of the western ocean was well kept. Unquestionably the Northmen did not regard it as a new continent, but merely an outlying part of Europe or Asia.

Gradually as fresh bands of explorers pushed north and south from the points touched at by Columbus, it became clear that across the westward path to Asia there lay a vast barrier of land. Thus instead of finding the Old they had discovered a New World, the largest, next to Asia, of the great continents-its crown in the frozen grip of the Arctic, its foot bathed by the Southern Seas.

Its population was scant when compared with the densely populated countries of Europe and Asia; but its natural resources were enormous and almost untouched. The New World offered a new home for the nations of the Old; and Spaniards, Portuguese, French, Dutch, and British all scrambled for possession, until nearly the whole of the continent came under European rule.

THE BRITISH COLONISTS.—Among the new possessors of the land, the British colonists, who had settled on the eastern shores of North America, rapidly developed in importance and power. Their country was not so fertile as some of the lands to the southward; dense forests hemmed them in. The gold and silver mines which lured and enriched the Spaniards were lacking in the newly settled North. But the British settlers prospered, and soon became strong enough to resist the exactions of an autocratic German king and secure their independence of the mother country. Thus a new nation came into being-a nation whose numbers have been swelled by immigrants from almost every country in the world; but which in language, laws, and ideals is still closely akin to the land which gave it

THE FRENCH.—Farther north, firmly seated on the St. Lawrence, the French held full sway, owing their authority to devoted Jesuit missionaries as much as to intrepid soldiers and traders. From the Great Lakes the agents of France struck the waters of the Mississippi, down which they extended a hand to the later French settlements in Louisiana; while by their Indian alliances these adventurers were guided through the forests and prairies of the west. Thus, when the English pioneers crossed the Alleghanies, they found their westward advance barred by a chain of French posts. The long wide-flung struggle between the two great powers rose to its height in the Old and the New World about the middle of the eighteenth century. In America it ended abruptly with the campaign which, after the taking of Quebec, gave all Canada to Britain, and left the colonies free to expand to the Mississippi.

SYNOPSIS OF NORTH AMERICA (See Maps, pp. 81-91)

North America, the northern division of the New World, is connected with South America by the Isthmus of Panama. In a narrower sense, it extends southward to the northern frontier of Guatemala, thus excluding the Central American states. In shape and character it is not unlike the southern continent. North America is an irregular triangle in form.

It contains 8,600,000 square miles—less than half the extent of Asia; its greatest length is 4,500 miles, and its greatest breadth is 3,100 miles.

Peninsulas.—There are, on the east coast four great peninsulas: Labrador, Nova Scotia, Florida, and Yucatan; on the west coast, two: Alaska and Lower California.

CAPES.—The most important capes on the east coast are: Cape Race in Newfoundland, Cape Sable in Nova Scotia, Cape Cod in Massachusetts; Cape Hatteras in North Carolina, and Cape Sable in Florida. On the west: Cape Prince of Wales, Cape Pierce, Cape Flattery, Cape Blanco, Point Conception, Cape San Lucas, and Cape Corrientes. On the north: Cape Bathurst and Cape Barrow.

Bayes Churs and Cape Barrow.

Cape Bathurst and Cape Barrow.

Bays, Gulfs, etc.—On the east: Baffin Bay, Hudson Bay, Gulf of St. Lawrence, Bay of Fundy, Gulf of Mexico, and the Caribbean Sea. On the west: Gulf of California. On the north: Gulf of Boothia.

Straits.—The chief straits are: Iludson Strait, connecting Hudson Bay with the Atlantic; Davis Strait, connecting Baffin Bay with the Atlantic; Barrow Strait, connecting Baffin Bay with the Arctic and Bering Strait, connecting the Arctic with the Pacific, and dividing the continents of North America and Asia; it is 36 miles wide.

ISLANDS.—The islands on the east coast are the most important: Anticosti, Prince Edward Island, Newfoundland, the Bermudas, and the West Indies. On the west, the most important island is Vancouver. On the north, there is a vast archipelago, the largest island of which is Greenland.

Build.—The build of North America is simple. On the west, there is a lofty table-land with a high range of mountains; on the east, a lower range parallel with the coast; and between the two, a vast plain which stretches from the Arctic to the Gulf of Mexico.

Coast Line.—The length of the coast line is estimated at 24,500 miles; this gives one mile of coast line to each 350 square miles of surface. The

this gives one mile of coast line to each 350 square miles of surface.

east coast is much indented; the west coast is comparatively regular.

Mountains.—North America has two great mountain systems: the Appalachian system and the Western or Cordilerra system. In the Ap-

Appalachian system and the Western or Cordilerra system. In the Appalachian system the most important range is that of the Alleghanies; in the Western system, the chief range is the Rocky Mountains.

The Appalachian mountains begin in the table-lands of Alabama, stretch northeast to the St. Lawrence, and reappear in the Plateau of Labrador. Besides the Alleghanies, their best known range are the Blue Mountains. They are also connected with the Catskills of New York, and the Green Mountains of Vermont.

Mountains of Vermont.

The Western or Cordillera system comprises two plateaus and a number of mountain ranges. The two plateaus are the Mexican Plateau, which has the Sierra Madre as its western buttress, and the Western Plateau, which has the Rocky Mountains, the backbone of North America, as its eastern buttress; while on its western edges it has the Sierra Nevada and the Cascade Mountains. West of the Sierra Nevada and parallel to it runs the Coast Range, and the two support between them a river valley. The most famous part of the Western Plateau is the Great Basin—an elevated plateau which lies between the Wasatch Range on the east and the Sierra Nevada and Cascade Range on the west. The Great Basin is a continental basin

HIGHEST POINTS IN THE UNITED STATES

STATE OR TERRITORY	GREATEST ALTITUDE	неіснт (feet)
ALAEAMA	Cheaha Mt. (Talladega Co.)	2,407
	Mt. McKinley	20,300
	San Francisco Peak (Coconino Co.)	12,611
	Blue Mt. (Polk-Scott Co.)	2,800
	Mt. Whitney (Invo-Tulare Cos.)	14,501
	Mt. Elbert (Lake Co.)	14,402
	Bear Mt. (Litchfield Co.)	2,355
	Centerville (Newcastle Co.)	440
	Tenley (Northwest)	420
	fron Mt. (Polk Co.)	125
	Brasstown Bald (Towns-Union Co.)	4,768
U	Manna Kea (Hawaii Co.)	13,823
Idano	Castle Peak (Custer Co.)	12,130
	Charles Mound (Jo Daviess Co.)	1,241
Tours	Carlos City (Randolph Co.)	
	Primghar (O'Brien Co.)	1,210
	On West Boundary	4,135
KENTUCKY	Big Black Mt. (Harlan Co.)	4,100
	Claiborne Co.	
Marrie	Katahdin Mt. (Piscataquis Co.)	400
	Backbone Mt. (Garrett Co.)	5,273
	Mt. Greylock (Berkshire Co.)	3,340
	Porcupine Mt. (Ontonagan Co.)	3,505
M	Mesabi Range (St. Louis Co.)	2,023
	Three miles southwest of Iuka	1,920
	Taum Sauk Mt. (Iron Co.)	780
	Granite Peak (Carbon Co.)	1,750
	Southwest part Banner Co.	12,850
NEVAGA	East Peak White Mts. (Esmeralda Co.)	5,350
NEW HAMPSHIRE	Mt. Washington (Coos Co.)	13,145
New Jersey	High Point (Sussex Co.)	6,293
	N. Truchas Peak (Rio Arriba Co.)	1,809
	Mt. Marcy (Essex Co.)	13,306
NORTH CAROLINA	Mt. Mitchell (Yancy Co.)	5,344
	Summit in Bowman Co.	6,711
	Near Bellefontaine (Logan Co.)	3,500
	West end of Cimarron Co.	1,550
	Mt. Hood (Clackamas-Wasco Co.)	4,750
	Blue Knob (Bedford Co.)	11,225
PHILIPPINES	Mt. Ape (Mindanao)	3,136
	Luquille Mts.	10,312
RHODE ISLAND	Durfee Hill (Providence Co.)	3,532
	Sassafras Mt.	805
C	Harney Peak (Pennington Co.)	3,548
	Mt. Guvet	7,242
	El Capitan (El Paso Co.)	6,636
	Kings Peak (Wasatch Co.)	9,020
	Mt. Mansheld (Chittenden Co.)	13,498
		4,406
	Mt. Rogers (Grayson Co.) Mt. Ranier (Pierce Co.)	5,719
	Spruce Knob (Pendleton Co.)	t4,408
	Rib Hill (Marathon Co.)	4,860
***	Gaonett Peak (Fremont Co.)	1,940
	Osbbett Fear (Flemont Co.)	13,785

and contains rivers and lakes whose waters never reach the ocean. The largest of these lakes is the *Great Salt Lake*.

The highest summits of the Rocky Mountains are Mt. McKinley (20,300)

The highest summits of the Rocky Mountains are Mt. McKinley (20,300 feet)—the highest mountain in North America—and Mt. St. Elias (18,024 feet) in Alaska; Mt. Logan (19,539 feet), Mt. Brown (16,000 feet), and Mt. Hooker (15,700 feet) in Canada; Fremont Peak (13,700 feet) in Wyoming; Pikes Peak (14,108 feet) in Colorado. In Mexico, at the south end of the Mexican Plateau, are Popocatepetl (19,784 feet) and Ixtaccihuatl (17,879 feet). The highest peak in the Sierra Nevada is Mt. Whitney (14,501 feet), and the highest in the Appalachians Mt. Mitchell (6,711 feet).

Plains.—The Great Central Plain lies between the Rocky Mountains and the Appalachian system, and extends from the Arctic to the Gulf of Mexico. One half of this plain slopes to Hudson Bay and the Arctic; the other half to the Gulf of Mexico. The watershed between them is often called the Height of Land.

the other half to the Gulf of Mexico. The watershed between them is often called the Height of Land.

The Coastal Plain borders the Atlantic and the Gulf of Mexico. It contains large areas of valuable soil, emineutly suitable for agriculture. Until the occupation and development of the Great Central Plain, the Coastal Plain was the agricultural centre of America.

Prairies.—The vast fertile plains of the Mississippi Valley are called prairies, a French word meaning an extensive meadow tract. In Canada the prairies extend from the Rocky Mountains to a line eastward of Winnipeg. The prairies are generally of a rolling character, and except where cultivated are usually covered with high coarse grass, with few or no trees.

Rivers.—North America has a magnificent system of rivers. The main axis of the continent, being nearest the Pacific, sends the longest streams into the Atlantic and the Arctic. The four largest rivers are the Mississippi, the Saskatchevan, the Mackenzie (including the Great Slave River, and either Peace of Athabasca rivers), and the St. Lawrence. The two largest rivers into the Pacific are the Yukon and the Columbia.

Mississippi.—The Mississippi ("Father of Waters"), with its tribu-

Mississippi.—The Mississippi ("Father of Waters"), with its tribu-In Mississippi (Father of Waters), with its tributary the Missouri, is the longest river in the world; it is 4,200 miles in length. Its basin consists mainly of three long slopes: (1) from the Rocky Mountains eastward; (2) from the Appalachians westward; and (3) from a low divide called the Height of Land southward. Down these three slopes flow its three largest tributaries, the Missouri, the Ohio, and the Upper Mississippi, that is, the Mississippi from its source to the mouth of the Missouri.

The Mississippi and its tributaries have more than 15,000 miles of navigable waterways, and drain an area of about 1,250,000 square miles. Extending through the heart of North America, the system affords a direct line of communication between temperate and tropical regions. The Mississippi rises in the small lake of Itasca in Minnesota. In its middle course it receives from the west the Missouri, Arkansas, and Red Rivers; from the jeast, the Ohio. The Missouri itself receives the two great tributaries, the Yellowstone and the Platte.

ST. LAWRENCE.—The St. Lawrence with the five Great Lakes forms one of the great river systems of the world. Its length from the source of the river St. Louis to the Gulf of St. Lawrence is 2,100 miles. Its largest tributary is the Ottawa; its grandest, the Saguenay. It receives also a large

tridutary is the *Utlawa*; its grandest, the *Saguenay*. It receives also a large number of tributaries from the south.

The St. Lawrence has a number of different names throughout its course: (1) above Lake Superior it is called the St. Louis; (2) between Superior and Lake Huron, St. Marys River; (3) between Huron and Lake St. Clair, the St. Clair; (4) between St. Clair and Lake Erie, the Detroit; and (5) between Erie and Ontario, the Niagara, on which are the famous Niagara Falls; and (6) between Ontario and the Gulf of St. Lawrence, the St. Lawrence. The length of the river during which it bears the name St. Lawrence is 760 miles. As a natural highway between all points west of the Maritime Provinces and Europe the importance of the river to Canada cannot be over-estimated. It is the shortest freight route from the Great Lakes to Europe.

NIAGARA FALLS.—The Niagara Falls on the Niagara River are the greatest in the world for volume of water. The American Fall, adjoining the right bank, is a sheer descent of 162 feet and about 1,400 feet broad. The Horseshoe Falls, adjoining the left bank, has a depth of 155 feet, and falls over a great curve of rock measuring 2,600 feet. The Whirlpool is just below the Falls. The flow of water in the river at mean stage is 222,000 cubic feet per second, at low stage 176,000 cubic feet; this affords a theoretic new terms of which the setting the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the s water power equal to nearly four million horse power, of which it is estimated that three fourths is practically available for economic purposes.

PRINCIPAL RIVERS OF NORTH AMERICA

RIVER	LENGTH (miles)	SOURCE	MOUTH
Alabama	350	Junction of Coosa and Talla-	Mobile River
ALLEGRANY	350	Poosa rivers, Ala	Ohio River
ALTAMAHA	150	Formed by Ocmulgee and Oconee	
		rivers, Ga	Atlantic Ocean
Androscoggin .	160	Umbagog Lake, Me	Kennebec River
APALACHICOLA .	90	Junction of Chattahoochee and	
		Flint rivers, Ga	Gulf of Mexico
ARKANSAS	2,000	Rocky Mountains, Col	Mississippi River
BIG HORN	500	Rocky Mountains, Wyo	Yellowstone River
BLACK BLACK WARRIOR	190	Adirondack Lakes, N. Y.	Lake Ontario
BLACK WARRIOR	300	Formed by Locust and Mulberry	ar I'I r
Brazos	0 ==	Forks, Ala	Tombigbee River
CANADIAN	850		Gulf of Mexico Arkansas River
CANADIAN	900	Northeastern New Mexico	Arkansas River
CAPE PEAR	250	Junction of Haw and Deep	Atlantic Ocean
CHATTAHOOCHEE .	500	rivers, N. C	Apalachicola River
CHEYENNE	. 500	Factorn Wyoming	Missouri River
CHOWAN	50	Eastern Wyoming	MIISSOUIT INVEL
CHOWAIT	30	way rivers, N. C.	Albemarle Sound
CHURCHILL	800	North Saskatchewan and North	moemane boans
		Manitoba	.Hudson Bay
CIMARRON	650	Raton Mountains, N. Mex.	Arkansas River
COLORADO	650	In the Staked Plain, Tex	Matagorda Bay
COLORADO	1,360	Junction of Green and Grand	,
	7.5	rivers, Utah	Gulf of California
COLUMBIA	1,400	Upper Columbia Lake, B. C	Pacific Ocean
CONNECTICUT .	410	Connecticut Lake, N. H.	Long Island Sound
Coosa	350	Junction of Oostenaula and Eto-	
~		wah rivers, Ga.	Alabama River
CUMBERLAND	650	Junction of Poot and Straight	
n		Forks, Ky.	Ohio River
DELAWARE	375	Catskill Mountains, N. Y.	Delaware Bay
DES MOINES	450	Lake Shetek, Minn	Mississippi River

SITUATION

Norfolk, Va., to Albemarle Sound, N. C.
Savannah River, Ga., to Augusta, Ga.
Beaufort Inlet, N. C., to Pamlico Sound
Rome, N. Y., to Lyons Falls, N. Y.
Connects Lake Frie and Niagara
Falls at Buffalo, N. Y.
Brazos River to Matagorda Bay, Tex.
Fort Myers to Lake Okeechobee, Fla.
Connects Buzzards Bay and

Fla.

Connects Buzzards Bay and Barnstable Bay
Montezuma, N. Y., to Caynga and Seneca Lakes, N. Y.
This canal overcomes the rapids between Chambly and St.
Johns
Whitehall, N. Y., to Watervliet, N. Y.
Between Analyshicals Pines

Whitehall, N. Y., to Watervliet, N. Y.
Between Apalachicola River and St. Andrews Bay, Fla.
Connects Chesapeake and Delaware bays
Cumberland, Md., to Washington, D. C.
Colbert Shoals, Tennessee River, Ala.
Mississippi River at New Orleans, La., to Bayon Black
Cornwall to Dickinson's Landing Columbia River, from Big Eddy to Celilo Falls, Oregon
New Brunswick, N. J., to Bordentown, N. J.
Easton, Pa., to Bristol, Pa.
Albany, N. Y., to Buffalo, N. Y.
Winyaw Bay, S. C., to Santee River
Alligator River to Lake Mattamuskeet, N. C.
Mayport, Fla., to Miami
Oyster Bay, Tex., to Brazos
River, Tex.
Connects Hudson River (via Spuyten Duyvil Creek) and Long Island Sound
Deerfield to Lake Okeechobee, Fla.
Chicago, Ill., to La Salle, Ill.

Fla. . Chicago, Ill., to La Salle, Ill. .

enne-

Canal)

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TION

Illinois River to Mississippi River, near Rock Island, Ill. Rehoboth Bay to Delaware Bay, Del. Montreal to Lachine Connects Chesapeake Bay with Albemarle Sound Lake Mattamuskeet to Wysock-ing Bay, N. C. Connects Lake Washington and Puget Sound

Coalport, Pa., to Easton, Pa.
At Falls of Ohio River, Louisville, Ky.
Hyde County, N. C.
Cincinnarti, Ohio, to Toledo,
Ohio
Lake Okeechobee to Miami, Fla.
Jersey City, N. J., to Phillipsburg, N. J.

Cape May to Bay Head, N. J. Cleveland, Ohio, to Dresden, Ohio

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PRIN	CIPAL R	RIVERS OF NORTH AMERICA-	-Continued	CHIEF CANAI
RIVER	LENGTH (miles)	SOURCE	нтиом	CANAL
Dolores	052	San Juan Mountains, Col	Grand River	ALBEMARLE AND CHESAPEAK
FLINT Fox	350 250	Near Atlanta, Ga. Green Lake County, Wis.	Apalachicola River Green Bay	Augusta
FRASER	740	British Columbia	Gulf of Georgia	Beaufort
GENESEE GILA	145 550	British Columbia Near Raymond, Pa. Tuscan Mountains, N. Mex.	Lake Ontario Colorado River	
GRAND	280	Southern Iowa	Missouri River Lake Michigan	BLACK RIVER
GRAND GREAT KANAWHA	350 450	Grand Lake, Col.	Green River Ohio River Ohio River	Black Rock Channel
GREEN	350	Lincoln County, Ky.	Ohio River	Brazos River
GREENBRIER GUNNISON	175	Saguache Range, Col	Great Kanawha River Grand River	CALOOSANATCHEE
HACKENSACK . HOUSATONIC .	50 150	Lincoln County, Ky. Pocahontas County, W. Va. Saguache Range, Col. Rockland County, N. Y. Taghanic Mountains, Mass. Lake Sanford Adjundark Mouna	Newark Bay Long Island Sound	CAPE COD (ship canal)
HUDSON	350	Lake Sanford, Adirondack Moun-	New York Bay	CAYUGA ANO SENECA
HUMBOLDT	375	Elko County, Nev.	Humboldt Lake Mississippi River	CHAMBLY
JAMES	345 450	Formed by Jackson and Cow-	Chesapeake Bay	CAMBELL
KALAMAZOO	200	Lake Sanford, Adirondack Moun- tains, N. Y. Elko County, Nev. Des Plaines River, Wis. Formed by Jackson and Cow- pasture Rivers, Va. Hillsdale County, Mich. Junction of Smoky Hill Fork and	Lake Michigan	CHAMPLAIN
KANSAS	300	Solomon River Ky	Missouri River	CHANNEL
Kaskaskia	320 175	Champaign County, Ill. Moosehead Lake, Me. Cumberland Mountains, Ky.	Mississippi River Atlantic Ocean	CHESAPEAKE AND DELAWARE
Kentucky Lerma	250 600	Cumberland Mountains, Ky Mexico State	Ohio River Pacific Ocean	CHESAPEAKE AND OHIO .
MACKENZIE*	900	Great Slave Lake Junction Brule and Michigamie	Arctic Ocean	COLBERT SHOALS
MENOMINEE	125	rivers, Mich. White Mountains, N. H.	Green Bay	
Merrimac Minnesota	150 475	Big Stone Lake, S. Dak	Atlantic Ocean Mississippi River	COMFANY
Missouri- Mississippi	4,200†	!Rocky Mountains, Mont., and		CORNWALL
MOBILE	50	§Itasca Lake, Minn	Gulf of Mexico	DELAWARE AND RARITAN .
	160	bama rivers, Ala.	Mobile Bay Hudson River	DELAWARE DIVISION
Monawk	300	Formed by West Fork and Ty-		Erie
Netson	500	Lake Winnipeg	Alleghany River Hudson Bay	Estherville-Minim Creek
Neosho Neuse	400 300	bama rivers, Ala. Lewis County, N. Y. Formed by West Fork and Ty- gart's Valley rivers, W. Va. Lake Winnipeg Morris County, Kan. Person County, N. C. Northern Googia	Arkansas River Pamlico Sound	FAIRFIELD
Ocmulgee Ohio	280 950	Northern Georgia Junction of Alleghany and Mon-	Altamaha River	FLORIDA COAST LINE GALVESTON AND BRAZOS .
Osage	460	ongahela rivers, Pa Lyon County, Kan	Mississippi River Missouri River	HARLEM RIVER (ship canal)
OTTAWA	600	Near Lake Timiskaming	St. Lawrence River	THE COMP CHAIN
Passaic Pearl	350	Morris County, N. J	Newark Bay Gulf of Mexico	HILLSBORO
Pecos	800 300	Rocky Mountains, N. Mex Blue Ridge Mountains, N. C	Rio Grande Winyaw Bay, S. C.	ILLINOIS AND MICHIGAN .
PENOBSCOT	350 1,260	Sweetwater River, Wyo	Penobscot Bay Missouri River	ILLINOIS AND MISSISSIPPI (Her
POWDER	400	Big Horn Mountains, Wyo. Alleghany Mountains, W. Va.	Yellowstone River Chesapeake Bay	INLAND WATERWAY (Lewes C:
POTOMAC	1,200	In the Staked Plain, Tex	Mississippi River Lake Winnipeg	LACHINE
RED	700	Lake Traverse, Minn	Gulf of Mexico	LAKE DRUMMOND
ROANOKE	240	Formed by Dan and Staunton rivers, Va.	Albemarle Sound	Lake Landing
Rock	330 460	Koshkonong Lake, Wis	Mississippi River Gulf of Mexico	LAKE WASHINGTON-PUGET SO
SACRAMENTO SAGUENAY	600	Goose Lake, Cal	Suisun Bay St. Lawrence River	LEHIGH COAL AND NAVIGATION
St. Croix	200	Douglas and Bayfield counties, Wis.	Mississippi River	Co
St. Francis	460	St. François County, Mo Brevard and Osceola counties,	Mississippi River	MATTAMUSKEET OUT FALL
St. John's	400	Fla	Atlantic Ocean	MIAMI AND ERIE
St. Joseph St. Lawrence** .	260 760	Hillsdale County, Mich.	Lake Michigan Gulf of St. Lawrence	Міамі
SAN JOAQUIN	350 150	Sierra Nevada Mountains, Cal. Junction of Wateree and Con-	Sacramento River	Morris
Saskatchewan .	1,660	garee rivers, S. C	Atlantic Ocean Lake Winnipeg	Muscle Shoals and Elk R
SAVANNAH	450	Formed by Tugaloo and Kiowee	Atlantic Ocean	North New River
SCHUYLKILL	130	Near Pottsville, Pa	Delaware River Ohio River	NEW JERSEY COASTAL INL
SCIOTO Shenandoan .	225	Auglaize County, Ohio Northern Virginia	Potomac River	WATERWAY
SNAKE	950	Yellowstone National Park, Wyo.	Columbia River	Оню
(North Branch)	256	Lake Schuyler and Otsego Lake, N.Y.	Chesapeake Bay	Oswego
(West Branch)	250		Susquehanna River Gulf of Mexico	PORTAGE LAKE AND LAKE
SUWANEE	200 240	Northern Mississippi	Yazoo River Coosa River	PERIOR
TALLAPOOSA TENNESSEE	250 1,200	Neat Raymond, Fa. Okefinokee Swamp, Ga. Northern Mississippi Paulding County, Ga. Formed by Clinch and Holston rivers, Tenn. Prentiss County, Miss. Northern Texas Mercer County, Ohio Western Ark anses	*	PORT ARTHUR (ship canal) .
Томенсвее	475	Prentiss County, Miss.	Ohio River Mobile River	RIDEAU
TRINITY	530 550	Northern Texas	Galveston Bay Ohio River	Sabine-Neches
Washita White	550	Western Arkansas	Red River Mississippi River	St. Clair Flats
WILLAMETTE	275	Cascade Range, Ore	Columbia River Mississippi River	St. Lucie
Wisconsin Yazoo	400 300	Junction of Tallahatchee and Ya-		St. Marys Falls
YELLOWSTONE .	1,100	lobusha rivers, Miss. Rocky Mountains, Wyo. Lake Lindeman, Yukon District,	Mississippi River Missouri River	Co. M
Yukon	2,200	Lake Lindeman, Yukon District, Canada	Bering Sea	ST. MARYS FALLS (parallel ca
				SALEM
*Sometimes regard	ed as inclu	iding Great Slave River and either I	Peace or Athabasca River,	SAULT STE MARIE (ship cana
		Missouri to Gulf of Mexico. ‡Son	irce of Missouri. §Source	SCHUVLKILL NAVIGATION CO.
of Mississippi.		ed "St. Lawrence."		Soulanges
		ed "St. Lawrence.	.6.1.1	
1 NT 1	A	too the lessest mumber	or the largest lakes	STUDGEON KAVAND LAVE M

SNAKE	950	Yellowstone National Park, Wyo.	Columbia Kiver	OHIO	Ohio	
Susquehanna .				0	Oswego, N. Y., to Syracuse, N. Y.	
(North Branch)	256	Lake Schuyler and Otsego Lake,	GI 1 D	Oswego	Columbia, Northumberland,	
		N. Y	Chesapeake Bay	Pennsylvania	Wilkes-Barre, Pa	
(West Branch)	250	Near Raymond, Pa	Susquehanna River	N 7 N C	Wilkes-Darre, ra	
SUWANEE	200	Okefinokee Swamp, Ga	Gulf of Mexico	PORTAGE LAKE AND LAKE Su-	E. V. V. Par to Isla	
TALLAHATCHEE .	240	Northern Mississippi	Yazoo River	PERIOR	From Keweenaw Bay to Lake	
TALLAPOOSA	250	Paulding County, Ga	Coosa River	D 4 (11 1)	Superior Port Arthur, Tex., to Gulf of	
TENNESSEE	1,200	Formed by Clinch and Holston	011 71	PORT ARTHUR (ship canal)	Fort Artnur, Tex., to Guir of	
		rivers, Tenn	Ohio River	D	Mexico .	
Tombigbee	475	Prentiss County, Miss	Mobile River	RIDEAU	Connects River Ottawa with	
TRINITY	530	Northern Texas	Galveston Bay	Sabine-Neches	Port Arthur Canal to mouth Sa-	
WABASH	550	Mercer County, Ohio	Ohio River	Sabine-Neches	bine River, Tex.	
WASHITA	550	Western Arkansas	Red River	ST. CLAIR FLATS	Canal through delta at mouth of	
WHITE	800	Northwestern Arkansas	Mississippi River	ST. CLAIR FLATS	St. Clair River	
WILLAMETTE	275	Cascade Range, Ore	Columbia River	St. Lucie	Stuart to Lake Okeechobee, Fla.	
Wisconsin	400	Northern Wisconsin	Mississippi River	St. Marys Falls	Connects lakes Superior and	
YA200	300	Junction of Tallahatchee and Ya-	Mississippi River	SI, MAKIS PALLS	Huron at Sault Ste Marie,	
37		Rocky Mountains, Wyo.	Missouri River		Mich.	
YELLOWSTONE .	1,100	Lake Lindeman, Yukon District,	Missouii Kivei	St. Marys Falls (parallel canal)	Connects lakes Superior and	
Yukon	2,200	Canada	Bering Sea	or many and a parameter canaly	Huron	
		Canada	Delling Dea	SALEM	Salem River to Delaware River	
	1	1	1	SANTA FE.	Waldo, Fla., to Melrose, Fla	
*Compained records	d as incl	uding Great Slave River and either I	Peace or Athahasca River	SAULT STE MARIE (ship canal) .	Connects lakes Superior and	
with total length of a	hour 2 25	o miles	cacc of filmabases server,	, ·	Huron at St. Mary's River .	
			CM: 10	SCHUVLKILL NAVIGATION CO	Mill Creek, Pa., to Philadelphia,	
flotal length from	source of	Missouri to Gulf of Mexico. \$500	irce of Missouri. gaource		Pa	
of Mississippi.				Soulanges	Cascade Point to Coteau Landing	
**See above paragr	aph entit	led "St. Lawrence."		SOUTH NEW RIVER	Ft. Lauderdale to Lake Okee-	
					chobee, Fla	
LAKES.—North	Ameri	ca has the largest number	of the largest lakes	STURGEON BAY AND LAKE MICHI-		
of any continent	These	e lakes lie in the form of an	immense semicircle.	GAN	Between Green Bay and Lake	
of any continent.	I HESE	The The The	most important are:	_	Michigan	
parallel and almos	st conce	ntric with Hudson Bay. The	most important are.	TRENT	Connects Lake Octario and Lake	
the five Great La	ikes, Su	perior, Michigan, Huron, Erie	e, and Uniario, which	*** / 1.1 25	Huron via Trent River	
form part of the	St. Lawn	rence basin; the Great Bear Lo	ake: Great Slave Lake;	Welland (ship canal)	Connects Lake Ontario and Lake	
Ashahaana Wine	ident on	d the Great Salt Lake. Of t	he five Great Lakes	W D Dr. ou	Erie Lake Okeechobee, Lake Worth,	
Ainavasca; Winn	ipeg, an	the Oreat Date Bake. Of t	Michigan the	WEST PALM BEACH	West Palm Beach	
the only one whi	ch lies e	entirely within the United Sta	ates is munigan; the	Westersonung	Along St. Lawrence River	
others lie between	1 the Ur	nited States and Canada.		WILLIAMSBURG	Mong St. Dawience Kivel	
						ĺ

CLIMATE.—North America possesses every gradation of climate from Arctic to tropical. Latitude for latitude, it is colder than the climate of Europe. Thus Labrador is in the latitude of Great Britain; but it is colder than Siberia. Quebec is in the latitude of Paris; but has a much colder and longer winter. Washington is in the latitude of Sicily; but the Potomac is frozen over, and sleighs glide about the strects in winter.

In most parts of North America the climate is more continental than in the corresponding latitudes of Europe. This is mainly due to the absence of inland seas; also to the fact that the southwest winds from the Pacific are

inland seas; also to the fact that the southwest winds from the Pacific are kept off by the mountain ranges from the eastern plains, which are extremely cold in winter and intensely hot in summer.

The changes of temperature are very abrupt. This is due to the fact that there is no range of mountains between the northern and southern slope; and the Great Central Plain extends without a break from the Arctic to

In the Temperate Zone, the west coast is warmer and moister than the east. This is because the warm rain-laden southwest winds from the Pacific blow on the west coast. But in the east a west wind is a dry wind; while the east

on the west coast. But in the east a west wind is a dry wind; while the east wind is cold as well as moist.

The rainfall is greatest in the south, and decreases as we go north; it also decreases from west to east. The driest parts are the Western Plateau, especially the Utah Basin, which is drying up. The elevated plains east of the Rocky Mountains are always dry. See Climate Map of North American Plateau.

VEGETATION.—The flora of North America is very rich and varied. In the Arctic regions we find mosses, lichens, and stunted trees; in the temperate regions there is a greater variety of forest trees than is to be found in the forest regions of Europe or Asia; while in the tropical regions we find palms and bamboo. In Mexico the most striking plants are the

Of cultivated plants, the North grows barley, oats, and excellent spring wheat; maize—the only cultivated cereal that is indigenous to North America—grows in the warmer part of Canada and in nearly all the southern parts of the continent; the sugar cane, cotton, and tobacco are cultivated in the southern districts of the United States, Rice is grown very far south; and subtropical fruits (the orange, fig, lemon, etc.) flourish in the warm southern regions. See Vegetation Map of North America, p. 86.

Minerals.—North America is unequalled by any continent in the richness and variety of its mineral products. Coal and iron are abundant; while the precious metals—gold and silver—are mined in very large quantities. The purest copper is found in great abundance on the north and east shores of Lake Superior. Lead and quicksilver are found in many parts of the continent; both Canada and Mexico produce tin. For fuller details of the mineral wealth of the continent, see under Mexico, Canada, and the United States respectively. See Economic Map of North America, p. 87.

Animals.—North America is as rich as the Old World in birds, and insects, but is much poorer in mammals. In the north we find the caribou

Animals.—North America is as rich as the Old World in birds, and insects, but is much poorer in mammals. In the north we find the caribou (corresponding to the reindeer of Europe), the moose, bear, beaver, raccoon, seal, and many other fur-coated animals. The American bison or buffalo, which formerly roamed in large herds over most of the temperate regions of the continent, is now extinct except for small herds in Yellowstone Park and in captivity. There is only one marsupial—the opossum. Monkeys are found only within the tropics. Among carnivorous animals there are the cougar or mountain lion, the jaguar, wolf, fox, bear, skunk, the pine marten or American sable, the otter, and the glutton.

There are many species of birds noted either for their song or for their plumage. The humming-bird is peculiar to America. The common turkey is also native to America.

CHIEF RAILWAYS OF NORTH AMERICA

SYSTEM				MILEAGE	EXPRESS CO.
Atchison, Topeka, and Santa Fé				10,668	Wells Fargo
Atlanta, Birmingham, and Atlantic				642	Southern
Atlantic Coast Line				11.798	Southern
Baltimore and Ohio				5,636	Wells Fargo
Bangar and Aroostook Buffalo, Rochester, and Pittsburgh				631	American
Buffalo, Rochester, and Pittsburgh				586	American
Canadian Northern				4,553	Canadian Northern
Canadian Pacific				13,322	Dominion
Chesapeake and Ohio Chicago and Alton				2,369	Adams
Chicago and Alton	1 1			1,033	American; National
Chicago and E. Illinois			:	1,282	Wells Fargo
Chicago and NorthWestern			:	9,860	American
Chicago and NorthWestern Chicago, Burlington, and Quincy				11,222	Adams
Chicago Grat Wastern			٠		Wells Fargo
Chicago Great Western Chicago, Indianapolis, and Louisville		•	•	1,428	wetts rargo
Chicago, Milwaukee, and St. Paul	4 1		•		American
Chicago, Rock Island, and Paeifie		•	٠	10,045	Wells Fargo
Colorado Midland				8,331	American
Colorado Midland				338	Wells Fargo
Delaware and Hudson				881	National
Delaware, Lackawanna, and Western .				959	Adams
Denver and Rio Grande				3,514	Globe; Wells Fargo
Detroit and Mackinac				400	American
Detroit, Toledo, and Ironton				736	American
Dulyta, South Shore, and Atlantic				627	Western
Elgin, Joilet, and Eastern El Paso and South Western				777	
El l'aso and South Western				1,027	Wells Fargo
Effe				2,398	Wells Fargo
Florida Flast Chast				720	Southern
Grand Trunk				4,787	Canadian; National
Grand Trunk Pacific				3,549	Canadian
Great Northern				8,060	Great Northern
Hocking Valley Illinois Central			·	352	Adams
Illinois Central			•	8,073	American
Intercolonial International and Great Northern		•		1,889	Canadian; Dominion
International and Great Northern				1,160	Wells Fargo
Kansas City Southern					
Lehigh Valley				827	Wells Fargo
Lehigh Valley Minneapolis and St. Louis				1,444	American
Minneapolis, St. Paul, and Sault Ste Marie				1,646	Adams
Missouri, Kansas, and Texas				4,103	Western
Miseouri Pacific				3,865	American
New Orleans Mobile and Chin				7,285	Wells Fargo
Missouri Pacific New Orleans, Mobile, and Chicago New York Central and Hudson River				403	Southern
			**	13.076	American; National

SYSTEM							MILEAGE	EXPRESS CO.
New York, New Haven, and Hartford	1						6,393	Adams; American
Norfolk Southern	•			٠	•		900	Southern
Norfolk and Western	•	•	•	•	•	•	2,042	Southern
Northern Pacific	•		•	•	•	•	6,461	Northern
Northwestern Pacific	•	•	•		•	•	401	Wells Fargo
Pennsylvania		•	:	•	•	•	11,005	Adams
Père Marquette	•	•	•		•	•	2,314	Adams; Dominion
Philadelphia and Reading			•	:	•	•	1,992	American
St. Louis and San Francisco		•		۰		•	5,815	Wells Fargo; Southern
St. Louis Southwestern	•	•	•	•	•	•		Wells Fargo; Southern
San Antonio and Aransas Pass				•	•	•	1,754	Wells Fargo
San Pedro, Los Angeles, and Salt Lak	:				•		724	American
Seaboard Air Line	e	•	•	•	•		1,132	Southern
Southern		•	.*	•			3,106	
Southern Pacific				•		٠	9,479	Southern
				•		•	10,369	Wells Fargo
Spokane, Portland, and Seattle .		٠		•	٠	٠	556	Northern; Great North
T 1 D1C								ern
Texas and Pacifie		•		٠			1,901	Wells Fargo
Toledo, St. Louis, and Western							451	National
Union Pacific						٠	8,052	American
Virginian Wabash				٠			504	Adams
Wabash							3,032	Wells Fargo
Western Maryland							661	American .

MEXICO

The Aztecs.—Mexico was at one time a great empire ruled by the Aztecs. This race had attained a remarkable degree of civilization, and interesting remains of their architecture are existent in the teocallis or temples, usually erected in the form of truncated pyramids.

CONQUESTS BY THE SPANIARDS.—Long before the English and the French settled in the New World, the empire of the Aztecs was conquered by the Spaniards (1521). The country was called New Spain, and was governed by a series of viceroys possessed of almost absolute power. During the three hundred years since Cortez had wrested the power from Montezuma, four classes of people had appeared as the subjects of the Spanish rulers. These were: (1) the native Indians; (2) the Creoles, of Spanish descent but Mexican birth; (3) Spaniards born in Europe; and (4) the Mestizo or half-breeds, who were crosses between the other classes and the Indians.

INDEPENDENCE OF MEXICO.—The spirit of discontent engendered by the oppressiveness of the Spanish rule manifested itself in open rebellion at the beginning of the nineteenth century, and after various attempts to overthrow the royalist government the Mexicans succeeded in gaining their independence in 1821-1822.

ANARCHY AND CIVIL WARS.—The republican system which was founded on the ruins of the viceroyalty was more turbulent and unsettled than the government which it replaced. The confederacy of states was turned into a consolidated republic in 1835, with Santa Anna as president and virtual dictator. From then to the present time, except for the brief rule of the Austrian archduke Maximilian as emperor from 1864 till his execution in 1867, Mexico has had numerous dictatorships, and has been torn by civil strife. Faction wages war on faction; law and order give place to anarchy and rapine. Ranches are stripped of cattle, farms are left uncultivated, graft and pillage are rampant, while starvation stares many in the face. Under happier conditions Mexico would become one of the most prosperous countries in the Western Hemisphere. Its natural resources are very vast. It is a country that could support a large population in comparative affluence; but a stable government and domestic peace must be established before the potentialities of Mexico can be lifted into the realm of reality.

> SYNOPSIS OF MEXICO (See Maps, pp. 89-91)

The Republic of Mexico forms the southern extremity of North America and stretches into Central America, with an extensive seaboard on both the Atlantic and Pacific Oceans. It is bounded on the north by the United States; on the south by Guatemala and British Honduras. It comprises one of the richest and most varied zones in the world, but from various

causes its resources have never been fairly developed. Mexico comprises twenty-seven states, three territories, and a Federal district, making in all thirty-one divisions, with an area of 768,883 square miles and a population

thirty-one divisions, with an area of 708,883 square miles and a population of 15,063,000.

Build.—The surface consists of an elevated plateau, commencing at a few miles from the coast, and containing several volcanic summits, the highest of which are Ixtaccihuatl (17,879 feet) and Popocatepetl, (19,784 feet).

CLIMATE.—Three climate zones may be distinguished. On the coasts (tierra caliente) a tropical climate prevails, with frequent hurricanes and earthquakes; the lower plateaus on the east and west (tierra templada) enjoy a temperate climate; the more elevated table-lands (tierra fria) are cold, while the loftiest summits are covered with snow all the year round. The rainy season lasts from May to October; at Vera Cruz the rainfall is 186 inches per annum, and at Mexico City 25 inches. The mean temperature of Vera Cruz is 71.6°F. in January and 81.5°F. in July; and of Mexico City 53.6°F. and 65.3°F.

NATURAL PRODUCTIONS.—The chief crops are maize, wheat, barley, Chile pepper, sugar, coffee, cotton, tobacco, vanilla, flax, grapes, and all kinds of tropical fruit. The maguey, or Mexican aloe, yields a favourite beverage called "pulque"; other species of the same plant supply pita-flax and sisal-hemp (henequen). The forests abound in mahogany, rosewood, ebony, and caoutchouc trees. The mineral wealth is very great; silver and gold, copper, lead, and quicksilver, iron and coal, are the leading products of the mines. Mexico is one of the two largest silver-producing countries of the world.

Leverages—The industries comprise mining and smelting of silver

of the world.

INDUSTRIES .- The industries comprise mining and smelting of silver and other metals, cotton and woollen spinning and weaving, agriculture, and stock raising. There is a large output of sugar and molasses, and an increasing supply of petroleum is produced. The chief trade is with the United States; next come Great Britain, France, Germany, Spain, and Belgium.

CHIEF CITIES OF MEXICO

		CIT	Y				POP. IN THOUSANGS	STATE
AGUASCALIENTES* CHIHUAHUA* DURANGO* GUAOALAJIRA* GUANAJUATO* LEÓN MÉRIDA MÉRIDA MÉRIDA MÉRIDA MÉRIDA MONTERREY* MONTERREY* MORELIA* ORIZABA PACHUCA* PUEBLA* QUERÉTARO* SAN LUIS POTOSI* TOLUCA* VERA CRUZ. ZACATECAS*							 45 40 32 36 58 62 471 74 40 38 35 35 39 96 33 68 31 49	Aguascalientes Chihuahua Durango Jalisco Guanajuato Yucatan Federal District Nuevo León Michoácan Oaxaca Vera Cruz Hidalgo Puebla Querétaro Coahuila San Luis Potosí Mexico Vera Cruz Zacatecas

*Capital of state.

CAPITAL.—Mexico City. Population, 471,000.
CHIEF PORTS.—Acapulco, Mazatlán, Salina Cruz, Guaymas on the Pacific; and Vera Cruz, Tampico, Progreso, and Coatzacoalcos or Puerto México on the Atlantic or Gulf of Mexico.
CHIEF EXPORTS.—Silver and gold (about 45 per cent.); sisal-hemp, coffee, timber, logwood, hides and skins, vanilla, sugar, tobacco, dyestuffs, and drugs.
CHIEF IMPORTS.—Textiles, machinery, chemicals, arms and ammunition, carrioges, etc. carriages, etc.

COMMUNICATIONS.—The railways have been built in a large measure by American and English companies. There are about 16,000 miles of railway opened. There are about 60,000 miles of Federal telegraph lines, and 5,000 miles belonging to individual states and private persons. There are also 30,000 miles of Federal telephone wire.

Coinage.—The unit is the peso or silver dollar, nominally worth \$1 but actually about 50 cents. The finances are at present in a chaotic condition owing to the prolonged civil hostilities which have occupied the various factions during recent years.

GOVERNMENT.—Theoretically Mexico is a republic with a constitution modelled on that of the United States, with a president elected for six years, a Senate, and a House of Representatives; but in practice, notwithstanding the democratic forms, Mexico has been ruled for the last thirty ears or more by the simpler method of ignoring the constitution altogether. Thirty-eight per cent of the population are pure-blooded Indians and 43 per cent of mixed Indian and European blood—a fact which militates against the success of popular government.

CANADA

FIRST FRENCH, THEN ENGLISH.—Canada was originally discovered by Cabot in 1497, but its history dates only from 1534, when the French took possession of the country. The first settlement (Quebec) was founded by them in 1608. Quebec succumbed to the British forces under General Wolfe in 1759, and four years later the whole territory of Canada became a possession of Great Britain by the treaty of Paris (1763). By the treaty of Utrecht in 1713, Hudson Bay, Nova Scotia, and Newfoundland were ceded to Great

Britain, the provinces of New Brunswick and Prince Edward Island being subsequently formed out of it. Upon this Gallic foundation the English system of government was laid; and the strength of that system is shown in the fact that British institutions have been planted and assimilated alike in old French Canada and in those parts subsequently colonized by Great Britain herself.

British Columbia was formed into a crown colony in 1858, having previously been a part of the Hudson Bay Territory, and was united to Vancouver Island in 1866. By the British North America Act, passed in 1867, all of the British continental provinces were united under the title of The Dominion of Canada, and provision was made in the Act for the admission at any subsequent period of the other provinces and territories of British North America.

CONSTITUTION OF CANADA AND UNITED STATES CON-TRASTED .-- A very great difference between our Constitution and that of Canada, writes Ex-President W. H. Taft, is that, while the guaranties of civil liberty in our own Constitution are all express, as insisted on by Jefferson and Madison, though not thought necessary by Hamilton, they find such sanction as they have in the unwritten British Constitution, and are left not to the courts, but to the protection of an executive veto of provincial or dominion legislation. This really gives an opportunity for much more radical legislation in Canada with reference to vested rights than we have in this country. This may not be so important now as it will be later, when a revulsion against the danger of corporate political control and a plutocracy, which is likely to threaten Canada in the future, shall give rise to not only needed regulation and restriction, but also to such excessive and indiscriminate attack upon capital invest-ment such as we have seen in some parts of this country.¹

SYNOPSIS OF CANADA

The Dominion of Canada occupies the whole of the northern part of the North American continent (with the exception of Alaska and part of the coast of Labrador), from 49° north latitude to the Arctic seas, and from

the Pacific to the Atlantic.

CLIMATE.—The climate in the eastern and central portions of the Dominion presents greater extremes of cold and heat than in corresponding latitudes in Europe; but in the southwestern portion of the prairie region and the southern portions of the Pacific slope the climate is milder. Spring, summer, and autumn are of about seven to eight months' duration, and the winter four to five months. The mean temperature of Montreal is 17.6°F. in winter and 69.8°F. in summer. The mildest climate is enjoyed by British Columbia, with extremes of 28.4°F. and 77°F.

POLITICAL DIVISIONS OF CANADA

	P	RO	VIN	CE				(sq. miles)	POPULATION (1911)	CAPITAL
ONTARIO					,			407,262	2,523,274	Toronto
QUEBEC								706,834	2,003,232	Quebec
Nova Scotia								21,428	492,338	Halifax
NEW BRUNSWICK								27,985	351,889	Fredericton
PRINCE EDWARD								2,184	93,728	Charlottetown
British Columbi	A							355,855	392,480	Victoria
MANITOBA .								251,832	455,614	Winnipeg
ALBERTA								255,285	374,663	Edmonton
SASKATCHEWAN								251,700	492,432	Regina
YUKON								207,076	8,512	Dawson
NORTHWEST TER	UT	ORI	E5					1,242,224	13,481	
Totals								3,729,665	7,206,643	

CAPITAL OF THE DOMINION.—Ottawa. Population, 86,062.
GOVERNMENT.—Canada is a self-governing Dominion within the British Empire, its constitution resting on the British North America Act of 1867, under which the Dominion of Canada came into being on July 1, 1867 (Dominion Day). The Executive power is vested in a Governor-General appointed by the Sovereign and aided by a Privy Council.

The Dominion Parliament consists of a Senate and a House of Commons. The Senate consists of 87 members, nominated for life by the Governor-General, distributed between the various provinces thus: 24 for Ontario, 24 for Quebec, 10 for Nova Scotia, 10 for New Brunswick, 4 for Prince Edward Island, 3 for British Columbia, 4 for Manitoba, 4 for Alberta, and 4 for Saskatchewan. The House of Commons is chosen every five years at longest, and at present consists of 221 members. The Houses of Parliament were destroyed by fire in 1915, the new buildings being started the following year.

following year.

Production and Industry.—In the whole of Canada more than 35,000,000

¹W. H. Taft, in the National Geographic Magazine (March, 1916).

acres are sown to field crops (wheat, oats, barley, and other grain, hay, clover, potatoes, and other roots, fodder corn, and alfalfa). A considerable number of horses, cattle, sheep, and pigs are raised. According to the census of 1911 there were 3,628 butter and cheese factories and 5 factories for preserved milk and cream, the total value of all dairy products being about \$40,000,000. The fisheries are an important source of wealth and include salmon, cod, herrings, mackerel, and lobsters. The lumber trade is very considerable, and includes lath, shingles, cross ties, telegraph and telephone poles, besides wood used in the pulp industry.

The chief minerals produced are gold, silver, copper, nickel, lead, iron,

The chief minerals produced are gold, silver, copper, nickel, lead, iron, coal, Portland cement, asbestos and asbestic, petroleum, natural gas, clay

products, and stones.

The industrial establishments of all kinds number about 20,000, employing more than 515,000 persons. For distribution of these, see below

CHIEF CITIES AND INDUSTRIES OF CANADA

CITY OR TOWN	POP. IN THOUSANDS	PROVINCE	PRINCIPAL INDUSTRIES
Brandon	15	Manitoba	Ale, pumps, machinery.
CALGARY	56	Alberta	(Wheat shipping.) (Important railroad and trade
CHARLOTTETOWN .	11	P. E. Island	centre.) Pork-packing, condensed milk, lumber.
DAWSON CITY EDMONTON	3 54	Yukon Alberta	Mining. (Railroad, banking, outfitting centre.)
FREDERICTON GLACE BAY	7 17 47	New Brunswick Nova Scotia Nova Scotia	Lumber, boat factories. Fishing, machine works. Iron and steel, paper, leather,
Hamilton	101	Ontario	sugar, shipbuilding, fishing. Iron and tool works, cotton,
HULL	20 9	Quebec Alberta	Pulp and paper mills, lumber. Coal mining, live stock, sugar beets, wool.
London	56	Ontario	Chemical works, petroleum, iron foundries. (Sulphur springs.)
Moncton	11	New Brunswick	Car and machine shops, wire
MONTREAL	650	Quebec	Woollen and cotton goods, breweries, boots and shoes, clothing, sugar.
Moosejaw New Westminster	17	Saskatchewan British Columbia	Flour, stock-yards. Fish canneries, saw mills, iron works.
Оттама	102	Ontario	Glass, potteries, organs and
PRINCE ALBERT QUEBEC REGINA St. John	100 100 26	Saskatchewan Quebec Saskatchewan	Lumber, flour. Iron, leather, cotton. (Railroad and trade centre.)
St. John	42	New Brunswick	Fisheries, saw mills, boots and shoes, cotton and woollen goods, engines.
Saskatoon Syoney	21 18	Saskatchewan Nova Scotia	Brick works, wood-working. Steel works, coal mining, iron furnaces.
TORONTO	470	Ontario	Tanneries, canning and pack- ing, foundries, breweries, distilling.
VANCOUVER	114	British Columbia	Shipbuilding, canneries, cooperages, furniture, sugar refineries, glass.
Victoria	60	British Columbia	Fish canneries, shipbuilding, saw-mills, iron, chemical works.
Winnipeg	163	Manitoba	(Important railroad centre;

COMMERCE.—The external trade of Canada is chiefly with the following countries: British Empire, United States, Argentina, France, Germany, Italy, Japan, Mexico, Netherlands, China, Belgium, Switzerland, Dutch East Indies, Cuba, Russia, Spain, and Austria-Hungary.

CHIEF IMPORTS.—Raw wool and cotton, cotton and woollen manufactures, silk and manufactures; iron, steel and manufactures, coal and coke, breadstuffs, tea, provisions, fruits and nuts; flax, hemp, jute and manufactures, timber, sprits and wines, glass and manufactures, oils, paper, leather and manufactures, furs and manufactures, drugs and chemicals, tobacco, and books. tobacco, and books.

CHIEF EXPORTS.—Wheat, manufactures of wood, wheat flour, bacon, cheese, cattle, sheep, eggs, butter, oats, hay, beef, fruits, salmon, codfish, lobsters, coal, gold-bearing quartz, copper, silver, leather manufactures, hides and skins, iron and manufactures, agricultural implements, paper, and foreign produce.

COMMUNICATIONS.—There are more than 30,000 miles of railway; 10,500 miles of government telegraph lines, and 38,500 miles operated by chartered telegraph companies. There are about 1½ million miles of telephone wire in use throughout the Dominion. See Table of Railways, p. 333.

NEWFOUNDLAND

(See Map, p. 97)

Newfoundland is the oldest British colony; it was discovered by Cabot in 1497, the first land sighted being hailed as Prima Vista—the present Cape Bonavista. Exclusive sovereignty was ceded by France in 1713 by the treaty of Utrecht. The island is situated on the northeast side of the Gulf of St. the stand is situated on the northeast side of the Gulf of St. Lawrence, and is separated from the North American continent by the Strait of Belle Isle. The island is about 317 miles long and 316 miles broad; area, 42,750 square miles; population, 239,000. The chief capes are: Cape Bauld on the north, Cape Race on the southeast, and Cape Ray on the southwest. The coast is extremely rugged, and the coastal regions are mountainous. The climate is healthy, the thermometer seldom falling below zero in winter and reprise in survey to the coast and reprise in survey to the self-the self-

winter, and ranging in summer from 70° to 80°F.

INDUSTRIES.—The principal industries are the cod, herring, and seal fisheries, and the manufacture of cod-liver oil. Agriculture, mining, and lumbering are also engaged in. Large pulp and paper mills are in operation. There are 830 miles of railway, 4,300 miles of telegraph lines, and 900 miles of telegraph wire.

miles of telephone wire.

Government.—The colony is administered by a Governor, assisted by an Executive Council (not exceeding nine members), a Legislative Council (not exceeding 24 members), and an elected House of Assembly consisting of 36 representatives. Members of the Legislative Council receive \$120 per session; members of the Legislative Assembly receive \$200 or \$300 per session, according as they are resident or not in St. John's.

St. John's (population, 32,000) is the capital. Other towns are Harbour Grace (4,500), Carbonear (3,500), Twillingate (3,350), and Bonavista (3,900).

LABRADOR

(See Map, p. 98)

Labrador is a dependency of Newfoundland, and forms the most easterly part of America; it extends from Cape Chidley on the north to Blanc Sablon on the south, being a coastal strip along the west of the Labrador peninsula, bounded on the west by the province of Quebec, Its area is 120,000 square miles; population, 4,000. It possesses valuable cod, herring, trout, and salmon fisheries.

THE UNITED STATES OF AMERICA

(See Maps, pp. 130-133)

EARLY COLONIZATION.—Had it not have been for the wide expanse of water dividing the American continent from Asia, it is probable that the early European visitors would have found the land teeming with Asiatics. Although Columbus discovered the new continent in the fifteenth century, no definite European settlement was attempted until the last quarter of the sixteenth century when determined efforts were made by the leading maritime powers of Western Europe to turn to account the potential wealth of the newly discovered land. Of these enterprising nations, the English secured a paramount influence, through their natural aptitude for colonization. Jamestown was founded in 1607, and many royalist settlements were established in the district which had been named Virginia, after Queen Elizabeth. Step by step with the church and royalist foundations in the south a corresponding series of Puritan and Separatist centres was established in the north. The small band of Pilgrim Fathers, who landed at Plymouth Rock in 1620, was soon followed by a stream of God-fearing and determined settlers, chiefly from towns on the east coast of England, and New England became rapidly prosperous. Between these two settlements the Dutch had established themselves in New Netherlands (1621), and the Swedes in New Sweden (1638), other English foundations were Maryland (1632), Carolina (1663), New York (1664), New Jersey (1665), and Pennsylvania (1681). From that date European enterprise may be said to have ceased for half a century, and Georgia (1732) was the last of the English settlements.

DECLARATION OF INDEPENDENCE.—"Taxation without representation" had long been the keynote of the English constitution; and when the traditional rights of the English colonists were rudely trampled upon by an autocratic ministry and a callous German king, the colonists as a last resource revolted and proclaimed their independence (July 4, 1776). For seven years the conflict raged, but in 1783 by the treaty of Paris the independence of the United States was recognized by Great Britain.

The War of Independence was not merely a victory for American arms, but it was a still greater victory for the deep-rooted ideals of democracy which were sacred to the

British people on both sides of the Atlantic. From this beginning the United States has grown from thirteen states to its present colossal size; while its importance as a world power has kept pace with its territorial growth. Since the War of 1812—a war arising out of the hostilities between Britain and France, owing mainly to the rival interpretation of the law of allegiance in connection with the impressment of British subjects from American ships—the two nations have lived at peace; and it is a remarkable fact that along the wide frontier between the United States and the British Dominion of Canada there is not a single threatening gun on either side of the border.

Western Migration.—Until the Union was formed and we had consciously set out upon a separate national career, we moved but timidly across the nearer hills. Our most remote settlements lay upon the rivers and in the open glades of Tennessee and Kentucky. It was in the years that immediately succeeded the war of 1812 that the movement into the West began to be a mighty migration. Till then our eyes had been more often in the East than in the West. Not only were foreign questions to be settled and our standing among the nations to be made good, but we still remained acutely conscious and deliberately conservative of our Old-World connections. For all we were so new a people and lived so simple and separate a life, we had still the sobriety and the circumspect fashions of action that belong to an old society. We were, in government and manners, but a disconnected part of the world beyond the seas. Its thought and habit still set us our standards of speech and action. And this, not because of imitation, but because of actual and long-abiding political and social connection with the mother country. . . .

Since the war of 1812, undertaken as if to set us free to move westward, seven States had been admitted to the Union: and the whole number of States was advanced to twenty-four. Eleven new States had come into partnership with the old thirteen. The voice of the West rang through all our counsels; and, in Jackson, the new partners took possession of the Government. It is worth while to remember how men stood amazed at the change: how startled, chagrined, dismayed the conservative States of the East were at the revolution they saw effected, the riot of change they saw set in; and no man who has once read the singular story can forget how the eight years Jackson reigned saw the Government, and politics themselves, transformed. For long, the story being written in the regions where the shock and surprise of the change was greatest—the period of this momentous revolution was spoken of amongst us as a period of degeneration, the birth-time of a deep and permanent demoralization in our politics. But we see it differently now. Whether we have any taste or stomach for that rough age or not, however much we may wish that the old order might have stood, the generation of Madison and Adams has been prolonged, and the good tradition of the early days handed on unbroken and unsullied, we now know that what the nation underwent in that day of change was not degeneration, great and perilous as were the errors of the time, but regeneration. The old order was changed, once and for all. A new nation stepped, with a touch of swagger, upon the stage—a nation which had broken alike with the traditions and with the wisely wrought experience of the Old World, and which, with all the haste and rashness of youth, was minded to work out a separate policy and destiny of its own.

It was then we swung out into the main paths of our history. The new voices that called us were first silvery, like the voice of Henry Clay, and spoke old familiar words of eloquence. The first spokesmen of the West even tried to con the classics, and spoke incongruously in the phrases of politics long dead and gone to dust, as Benton did. But presently the tone changed, and it was the truculent and masterful accents of the real frontiersman that rang dominant above the rest, harsh, impatient, and with an evident dash of temper. The East slowly accustomed itself to the change; caught the movement, though it grumbled and even trembled

at the pace; and managed most of the time to keep in the running. But it was always henceforth to be the West that set the pace.¹

BINDING OF EAST AND WEST.—And so, upon every hand and throughout every national question, was the commerce between East and West made up: that commerce and exchange of ideas, inclinations, purposes, and principles which has constituted the moving force of our lives as a nation. Men illustrate the operation of these singular forces better than questions can: and no man illustrates it better than Abraham Lincoln.

"Great captains with their guns and drums
Disturb our judgment for the hour;
But at last silence comes:
These are all gone, and, standing like a tower,
Our children shall behold his fame,
The kindly-earnest, brave, foreseeing man,
Sagacious, patient, dreading praise not blame,
New birth of our new soil, the first American."

This, surely, is the moral of our history. The East has spent and has been spent for the West; has given forth her energy, her young men and her substance, for the new regions that have been a-making all the century through. But has she learned as much as she has taught, or taken as much as she has given? Look what it is that has now at last taken place. The westward march has stopped, upon the final slopes of the Pacific; and now the plot thickens. Popula-tions turn upon their old paths; fill in the spaces they passed by neglected in their first journey in search of a land of promise; settle to a life such as the East knows as well as the West—nay, much better. With the change, the pause, the settlement, our people draw into closer groups, stand face to face, to know each other and be known: and the time has come for the East to learn in her turn; to broaden her understanding of political and economic conditions to the scale of a hemisphere, as her own poet bade. Let us be sure that we get the national temperament; send our minds abroad upon the continent, become neighbours to all the people that live upon it, and lovers of them all, as Lincoln was.1

SYNOPSIS OF THE UNITED STATES

(See Maps, pp. 129-237)

The United States of America is a Federal Republic consisting of 48 States and one Federal District (of which 13 are Original States, 7 were admitted without previous organization as Territories, and 28 were admitted after such organization), and of two organized Territories (Alaska and Hawaii) and dependencies.

THE UNITED STATES OF AMERICA Area, Population, etc., of States, Territories, and Possessions

DIVISION AND STATE	DATE OF ADMISSION	(sq. miles)	POPULATION IN 1910	CAPITAL
New England				
Maine	1820	33,040	724,371	Augusta
New Hampshire	1776*	9,341	430,572	Concord
Vermont	1791	9,564	355,956	Montpelier
Massachusetts	1776*	8,266	3,366,416	Boston
Rhode Island	1776*	1,248	542,610	Providence
Connecticut	1776*	4,965	1,114,756	Hartford
MINDLE ATLANTIC	.//-	4,700	4,444,730	I TABLETOIG
New York	1776*	49,204	9,113,614	Albany
New Jersey	1776*	8,224	2,537,167	Trenton
	1776*	45.126	7,665,111	Harrisburg
Pennsylvania	1//0	45,120	7,005,111	riarrisburg
	1803	12 010	, m6m - a -	Columbus
Ohio	1816	41,040 36,354	4,767,121	Indianapolis
Indiana	1818	56,665	5.638.591	
Illinois				Springfield
Michigan	1837	57,980	2,810,173	Lansing
Wisconsin	1848	56,066	2,333,860	Madison
West North Central	-0.0	50 (0		0.0.1
Minnesota	1858	84,682	2,075,708	St. Paul
lowa	1846	56,147	2,224,771	Des Moines .
Missouri	1821	69,420	3,293,335	Jefferson City
North Dakota	1889	70,837	577,056	Bismarck
South Dakota	1889	77,615	583,888	Pierre
Nebraska	1867	77,520	1,192,214	Lincoln
Kansas	1861	82,158	1,690,949	Topeka
South Atlantic				_
Delaware	1776*	2,370	202,322	Dover
Maryland	1776*	12,327	1,295,346	Annapolis
District of Columbia		70	331,069	
Virginia West Virginia	1776*	42,627	2,061,612	Richmond
West Virginia	1863	24,170	1,221,119	Charleston
North Carolina	1776*	52,426	2,206,287	Raleigh
South Carolina	1776*	30,989	1,515,400	Columbia
Georgia	1776*	59,265	2,609,121	Atlanta
Florida	1845	58,666	752,619	Tallahassee
EAST SOUTH CENTRAL				
Kentucky	1792	40,598	2,289,905	Frankfort
Tennessee	1796	42,022	2,184,789	Nashville
Alabama	1819	51,998	2,138,093	Montgomery
Mississippi	1817	46,865	1,797,114	Jackson

1 Woodrow Wilson, "Mere Literature and other Essays" (1896).

THE UNITED STATES OF AMERICA-Continued Area, Population, etc., of States, Territories, and Possessions

DIVISION AND STATE	DATE OF AOMISSION	(sq. miles)	POPULATION IN 1910	CAPITAL
WEST SOUTH CENTRAL				
Arkansas	1836			Little Rock
Louisiana	1812	53.335	1,574,449	Baton Rouge
Oklahoma		48,506	1,656,388	
	1907	70,057	1,657,155	Oklahoma City
Texas	1845	265,896	3,896,542	Austin
Mountain				Helena
Montana	1889	146,997	376,053	
Idaho	1890	83,889	325,594	Boise
Wyoming	1890	97,914	145,965	Cheyenne
Colorado	1876	103,948	799,024	Denver
New Mexico	1912	122,634	327,301	Santa Fé
Arizona	1912	113,956	204,354	Phoenix
Utah	1896	84,990	373,351	Salt Lake City
Nevada	1864	110,690	81,875	Carson City
Pacific				
Washington	1889	69,127	1,141,990	Olympia
Oregon	1859	96,699	672,765	Salem
California	1850	158,297	2,377,549	Sacramento
Totals		3,026,789†	91,972,266	
TERRITORIES AND POSSESSIONS	ACQUIRED			
Alaska	1867	590,884	64,356	Tuneau
Hawaiian Islands	1898	6,449	191,909	Honolulu
Philippine Islands	1899	115,026	7,635,426	Manila
Porto Rico	1899	3,435	1,118,012	San Juan
Virgin Islands	1917	142	12,786	
Guam	1899	210	11,760	Agaña
Tutuila (American Samoa) .	1900	77	6,668	Радорадо
Panama Canal Zone	1904	436	56,000	
Grand Totals		3,743,448	101,089,183	

*One of the thirteen Original States, which signed the Declaration of Independence on July 4, 1776. Delaware, Pennsylvania, and New Jersey ratified the Constitution in 1787; Georgia, Connecticut, Massachusetts, Maryland, South Carolina, New Hampshire, Virginia, and New York, in 1788; North Carolina, in 1789; and Rhode Island, in 1790.

†Gross area, including both land and water surface.

CAPITAL OF THE UNITED STATES .- Washington, D. C. Population,

365,000.
GOVERNMENT.—By the Constitution of the United States the government is entrusted to three separate authorities—the Executive, the Legislative,

Government.—By the Constitution of the United States the government is entrusted to three separate authorities—the Executive, the Legislative, and the Judicial.

The Executive power is vested in a President, who is elected every four years, and is eligible for reelection. The number of electors appointed by each separate State is equal to the number of Senators and Representatives to which the State is entitled in Congress; but no Senator or Representative, or office-holder under the government, can be an elector. The election takes place on the first Tuesday after the first Monday in November of the year preceding the year in which the Presidential term expires.

The President.—The President must be 35 years of age and a native citizen of the United States. He receives a salary of \$75,000, with a travelling allowance of \$25,000. He is commander-in-chief of the national forces, and has a veto on all laws passed by Congress, although a bill may become a law in spite of his veto on being afterward passed by a two-thirds majority of each house of Congress. The administration is conducted under the immediate authority of the President by a Cabinet of ten ministers chosen by him, and holding office at his pleasure, though confirmed by the Senate. A minister cannot sit in either house of the legislature.

The Vice-President, he is ex-officio president of the Senate, and in case of death or resignation of the President he assumes his office for the remainder of the term, and the Senate elects a temporary Vice-President.

The Senate.—The Senate consists of 96 members—two chosen by each State legislature for six years. The salary of a Senator is \$7,500 per annum, with mileage of 20 cents per mile, coming or returning, for each regular session.

The House of Representatives.—The House of Representatives

annum, with mileage of 20 cents per mile, coming or returning, for each regular session.

The House of Representatives.—The House of Representatives at present consists of 436 members. The number of Representatives for each state is alloted in proportion to its population—at present one for 173,901. The salary of a Representative is \$7,500 per annum, with mileage as for the Senators.

The Judicature.—The Federal Judiciary consists of three sets of Federal Courts: (1) The Supreme Court at Washington, D. C., consisting of a Chief Justice and eight Puisne Judges, with original jurisdiction where a State is a party to the suit, and with appellate jurisdiction from inferior Federal Courts. (2) The Circuit Courts of Appeal, dealing with appeals from District Courts, and consisting of the Justice of the Supreme Court for the circuit and all the Circuit and District Judges within the circuit. (3) The District Court, 87 in number, served by a District Court Judge.

NATIONAL PARKS OF THE UNITED STATES

PASK		ľ	LOCATION .	AREA (acres)
GENERAL GRANT NATIONAL PARK GLACIER NATIONAL PARK HAWAII NATIONAL PARK HOT SPRINGS RESERVATION LASSEN VOLCANIC NATIONAL PARK			 Arizona Oregon California Montana Territory of Hawaii Arkansas California Colorado Washington Sulphur, Oklahoma Colorado California North Dakota South Dakota Wyoming, Montana, Idaho California	480 159,360 2,536 915,000 911 82,880 42,376 207,360 848 229,001 161,597 780 10,522 2,142,720 719,622

AGRICULTURAL PRODUCTS.—The soil and climate of the United States are so varied that all grains, fruits, and vegetables known to the temperate zone, as well as some found in the semi-tropics, can be abundantly produced. Every stage of agriculture is represented, from the clearing of primeval forest to tillage and horticulture of the most advanced and scientific kind. tific kind.

AGRICULTURAL PRODUCTS OF THE UNITED STATES

(See Map, p. 87)

PRODUCT	WHERE GROWN
BARLEY	California, Iowa, Michigan, Minnesota, New York, Wisconsin, etc.
Cotton .	Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri Oklahoma, North Carolina, South Carolina, Tennessee, Texas, Virginia
FLAX	Kentucky, Missouri, Tennessee, etc.
FRUIT HEMP	California, Delaware, Florida, New York, Ohio, Pennsylvania. Kentucky, Missouri, Tennessee, etc.
Hops Maize .	California, Michigan, New York, Oregon, Washington, Wisconsin, etc.
	Illinois, Indiana, Iowa, Kansas, Kentucky, Minnesota, Missouri, Nebraska Ohio, South Dakota, Tennessee, Texas.
OATS	Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota Missouri, Montana, Nebraska, New York, North Dakota, Ohio, Okla- homa, Oregon, Pennsylvania, South Dakota, Texas, Washington, Wis- consin.
POTATOES . RICE	Illinois, Iowa, Maine, Michigan, New York, Pennsylvania, Wisconsin. Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina etc.
Rye	Illinois Jown Kanene New York Pennsylvenia Wissensia
SUGAR CANE TOBACCO .	Alabama, Georgia, Hawaii, Louisiana, Philippine Islands, Porto Rico. Connecticut, Florida, Georgia, Indiana, Kentucky, Maryland, Massachusetts, Missouri, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Vicginia, West Virginia, Wisconsin.
VINES WHEAT	California, New York, Ohio, etc.
WHEAT .	California, Colorado, Ídaho, Indiana, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, Virginia.

The mineral wealth of the United States is practically in-MINERALS.—The mineral wealth of the United States is practically inexhaustible. Both as regards quality and quantity, its minerals are unsurpassed by any other country in the world. With the exception of one or two minor minerals, the United States produces every mineral that is needed in industry. It produces 66 per cent of the world's output of petroleum, 60 per cent of its copper, 40 per cent of its coal and iron, and 32 per cent of its lead and zinc.

CHIEF MINERAL PRODUCTS OF THE UNITED STATES (See Map, p. 87)

MINERAL	L		WHERE POUND
ALUMINUM .			Alabara Asharas Carris
	٠		Alahama, Arkansas, Georgia.
COAL	٠	-	Alabama, Arizona, Colorado, Illinois, Indiana, Iowa, Maryland
0			Missouri, Ohio, Pennsylvania, Tennessee, West Virginia.
COPPER			Arizona, Michigan, Montana.
Golo	٠		California, Colorado, Idaho, Montana, Nevada, North Dakota,
			South Dakota.
GRANITE .			Connecticut, Georgia, Maine, Massachusetts, New Hampshire,
			New York, Vermont.
Iron			Alabama, Michigan, Minnesota, New York, Pennsylvania, Wiscon-
			sin,
LEAD			Colorado, Idaho, Illinois, Kansas, Missouri, Montana, Utah, Wis-
			consin.
MANGANESE			Arkansas, California, Georgia, Virginia.
MARRLE .			California, Georgia, Maryland, Massachusetts, Pennsylvania,
			Tennessee, Vermont.
NATURAL GAS			Indiana, Kansas, Missouri, New York, Ohio, West Virginia.
PETROLEUM	•	•	California, Indiana, Kansas, Kentucky, Missouri, New York,
DINOLLUM	•	•	Ohio, Pennsylvania, Texas, West Virginia.
PHOSPHATE OF	ĭ	T 2 4 12	Florida, South Carolina, Tennessee.
PLATINUM .		# 191 KS	California, Nevada, Oregon.
Ouicksilver		•	
			California, Nevada, Texas.
SALT			Kansas, Michigan, New York.
Silver		•	Colorado, Idaho, Montana, Nevada, South Dakota.
Tin	•		Alaska.
Zinc			Arkansas, Illinois, Kansas, Missouri, Wisconsin.

Manufactures.—The manufactures of the United States are on a colossal scale, backed by a gigantic capital. Year by year America has gradually freed itself from dependence upon the manufacturing industries of Europe. With few exceptions, the industries are carried on with the natural products of the country. A battleship, a railroad, an automobile (excepting the tires), or a factory can be built entirely from the products of American mines and forests.

The adaptability and resourcefulness of American chemists and engineers has been proved during the Great War as never before. A few illustrations will point this fact: Barium salts, needed for a variety of purposes, were formerly imported in large quantities, although the raw material, barytes, occurs in extensive deposits in this country. We now manufacture these salts in California, Colorado, Illinois, West Virginia, Pennsylvania, New York, and Tennessee, the new industry not only meeting the domestic demand, but also furnishing large quantities of barium cumpounds for export, and we are substituting domestic barytes for the foreign material for all purposes.

A NATION OF INVENTORS.—During the last half century the people of the United States have been responsible for two thirds of all the revolutionary epoch-making inventions of the world, ranging from the telephone and the incandescent lamp to the aëroplane and high-speed steel. The following list tells its own story:

Aeroplane (Wright Brothers, 1903), air brake (Westinghouse, 1869), artificial graphite (Acheson, 1896), automatic car-coupler (Janney, 1873), automatic knot-tying harvester machine (Appleby, 1880), block signals for railways (Robinson, 1872), buttonhole sewing machine (Reece, 1881), calcium carbide (Willson, 1888), carborundum (Acheson, 1891), cash register (Patterson, 1885), etlluloid (Hyatt, 1870), chain-stitch shoe-sewing machine (French & Myers, 1881), chrome tanning (Schulz, 1884), continuous-process match machine (Beecher, 1888), disk plows, modern type (Hardy, 1896), dry-air process for blast furnace (Gayley, 1804),

¹ Secretary F. K. Lane, in the National Geographic Magazine (December, 1915).

electric furnace reduction (Cowlea, 1885), electric lamp (Brush, 1879), electric welding (Thomson, 1889), electrolytic alkali production (Castner, 1890), harveyized armour plate (Harvey, 1891), high-speed steel (Taylor & White, 1901), incandescent lamp (Edison, 1880), machine for making barbed wire (Glidden, 1875), motion-picture machine (Edison, 1893), recording and adding machine (Burroughs, 1888), rotary converter (Bradley, 1887), single-type composing machine (Lauston, 1887), split-phase induction motor (Tesla, 1887), talking machine (Edison, 1878), telephone (Bell, 1876), transparent photograph film (Eastman, 1888), trolley car (Van Depoele & Sprague, 1884-1887), type-bar casting (Mergenthaler, 1885), typewriter (Sholes, 1878), water gas (Lowe, 1875), and welt machine (Goodyear, 1871).

NEW ENGLAND STATES CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	PRINCIPAL INDUSTRIES
Anne	Mass.	Cotton.
Adams Amesbury	Mass.	Flannels, broadcloth, cassimeres, carriages.
Ansonia	Conn.	Brass, copper, iron.
ARLINGTON . ATTLEBORO .	Mass. Mass.	Market gardening, chrome works. Jewellery, clocks.
AUBURN	Me.	Boots and shoes.
AUGUSTA	Me.	Shoes, cotton and paper mills.
BANGOR BARRE	Me. Vt.	Lumber, wood pulp. Granite.
Ватн	Me.	Shipbuilding, lumber, brass, iron.
BELFAST BELLOWS FALLS	Me. Vt.	Shipbuilding, granite. Wood pulp.
BENNINGTON .	Vt.	Pottery.
BERLIN	N. H. Mass.	Paper, lumher. Shoea and shoe machinery, shipping, fishing.
Beverly Boston	Mass.	Cotton, woollen, leather, clothes, printing and publishing.
BRATTLESORO	Vt.	Organs and pianos.
BRIOGEFORT .	Conn.	Ammunition, sewing machines, automobiles, cutlery, fire- arms, typewriters, musical instruments.
BRISTOL	Conn.	Hosiery, steel, hardware, fishing-rods.
BRISTOL BROCKTON .	R. I. Mass.	Cotton, woollen, rubber goods. Men's shoes, shoe machinery, tools, rubber.
BRUNSWICK .	Me.	Cotton, paper.
BURLINGTON .	Vt. Me,	Furniture, doors, blinds and sashes, cotton.
CALAIS CAMBRIDGE .	Mass.	Shipbuilding, lumber. Glass, furniture, organs, printing.
CENTRAL FALLS	R. I.	Woollens, cotton, and silk goods.
CHICOPEE CLINTON	Mass. Mass.	Cotton, rifles, swords, automobiles. Woollens, wire cloth, ginghams, carpets.
CONCORD	Mass.	General trade.
Concord	N. H. R. 1.	Carriages and wagons, granite quarrying, shoes. Market products, cotton goods.
DANBURY .	Conn.	Men's hats, iron, brass, silver-plated ware.
DERBY	Conn. N. H.	Pianos and organs, woollens, pins, hosiery, typewriters. Cotton and woollen goods.
DOVER EASTFORT	Me.	Lumber, fish.
EXETER	N. H.	Potter's ware, cotton goods.
EVESETT FALL RIVER .	Mass. Mass.	Steel, iron, automobiles, varnishes, boots and shoes. Cotton, woollen, bobbins, shuttles, rubber, wire, rope, ma-
_		chinery.
FITCHBURG . FRANKLIN	Mass. N. H.	Cotton, Farm products,
GARDINER	Me.	Ice.
GLOUCESTER	Mass. Conn.	Fishing, shoes, oil, twine, machinery, granite. Iron and brass castings, furniture, canning.
Guilford	Conn.	Insurance, automobiles, steam-engines, small arms, bicycles,
	M	rubber goods, typewriters.
HOLYOKE Keene	Mass. N. H.	Paper, cotton, woollen. Woollen mills, carriage making.
LACONIA	N. H. N. H.	Cotton, cars.
LAWRENCE . LEOMINSTER .	Masa. Mass.	Cotton and woollen mills.
LEWISTON	Mc.	Furniture, pianos. Cotton and woollen goods.
LEXINGTON .	Mass. R. I.	Agriculture, Cotton.
Lincoln Lowell	Mass.	Cotton, wooilen, carpet and dye works, hosiery.
Lynn	Masa. Conn.	Women's shoes, electrical supplies, lamps. Silk.
MANCHESTER . MANCHESTER .	N. H.	Cotton.
MARBLEHEAD .	Mass. Mass.	Fishing.
MARLEOSO	Conn.	Shoes, automobiles, bicycles, carriages. Silver-plated ware, cutlery, brass, iron, agate ware.
MILEORD	Mass.	Boots, shoes, and cotton.
Montpelier	Vt. N. H.	Granite. Cotton, iron and ateel products, paper.
NEW BEDFORD.	Mass.	Cotton, shoes, woollen, glass and paint works.
NEW BRITAIN NEWSUSYPORT	Conn. Mass.	Hardware, knit goods, cutlery. Cotton, shoes, hat shops.
New Haven .	Conn.	Rifles, rubber goods, ammunition, locks, automobiles.
NEW LONDON	Conn. R. 1.	Shipyards, furniture, woollen, ailk. Fishing. (Fashionable coast resort.)
NEWPORT . North Adams	Mass.	Cotton, woollen, cigars, boots and shoes.
Northampton	Mass. Conn.	Silk.
Norwalk Norwich	Conn.	Oysters. Cotton, woollen, firearms, leather, ailk.
PAWTUCKET	R. 1.	Cotton, woollen, foundries, silk.
PEABODY PITTSFIELD .	Mass. Mass.	Leather, electrical supplies, glue. Woollen, electrical works, paper.
PLYMOUTH	Mass.	Cordage, wire pails, fisheries,
PORTLAND	Me. N. H.	Lumbering, quarrying, farming, paper, locomotives. Boots and shoes, cotton, malt liquors.
PROVIDENCE .	R. 1.	Iron, steel, silverware, heavy machinery, cotton, leather, dyeing and printing works, rubber.
Permy and	Conn.	dyeing and printing works, rubber. Textile and silk goods.
PUTNAM QUINCY	Mass.	Granite, ship-building.
Revere	Mass.	(Suburban homes.)
ROCHESTER . ROCKLAND	N. H. Me.	Woollen goods, shoes. Lime, ice.
RUTLAND	Vt.	Scales, car wheels, farm tools, lumber, quarries.
ST. ALBANS . ST. JOHNSBURY	Vt.	Butter, car shops.
SALEM	Mass.	Tanneries, cordage works, shoes.
Somessworth Southbridge	N. H. Mass.	Cotton goods. Textile goods, optical works.
South Kingston	R. I.	Woollen goods.
SPRINGFIELD .	Mass.	Army rifles, meat packing, automobiles, railway cars, cotton,
STAMFORD	Conn.	skates, electrical supplies. (U. S. arseoal.) Locks, typewriters, woollens.
TAUNTON	Mass.	Cotton, nails, stoves, cutlery.
WAKEFIELD . WALLINGFORD .	Mass. Conn	Rattan goods.
WALTHAM	Masa.	Silver-plated ware, edge-tools. Watches, cotton, furniture.
WATERBURY .	Conn.	Watchen, clocka.
WATESVILLE . WESTERLY	Me. R. I.	Cotton goods, cara. Textile goods, printing-presses.
WESTFIELD .	Mas	Whips, cigars,
WOBURN WOONSOCKET .	Mas R. I.	Foundry products, machinery, leather. Cotton, woollen goods, furniture.
WORCSSTER .	Mass.	Foundries, wire, boots and shoes, clothing, woollens.
		•

MIDDLE ATLANTIC STATES CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	PRINCIPAL INOUSTRIES
A	NV	Car shops, stoves, brewing, printing and bookbinding.
ALBANY	N. Y. N. Y.	Brooms, knit goods, carpets.
AMSTEROAM ATLANTIC CITY	NT	(Seaside resort.)
AUBURN	N. J. N. Y. N. Y. N. Y.	Agricultural implements.
BINGHAMTON	N. Y.	Refined oils, glass, scales, cigars, sheet metal.
BUFFALO	N. Y.	Railway cars, elevators, flour, starch, soap, stockyards.
		iron and steel.
CAMDEN	N. J.	Furniture, chemicals, pens, machinery, shipbuilding
CHESTER	Pa.	Textiles, steel, ships.
Сопова	N. Y.	Boots and shoes, cotton, woollen and worsted knit goods.
DUNKIRK	[ή. j.	Locomotives.
EAST ORANGE	N. J. N. Y. N. J. N. J. N. Y. N. Y. N. Y.	Pharmaceutical works.
ELIZABETH	N. A.	Steel, oil refineries, sewing machines, shipyards. Boots and shoes, railway cars, silk, steel-plate works.
ELMIRA	N V	Stoves and heaters.
GLENS FALLS	N.Y.	Paper, cement, lumber, flour, lime, quarries.
GLOVERSVILLE	N. Y.	Leather gloves and mittens.
HARRISBURG	Pa.	Cars, boilers, rolling mills, furnaces, steel, lumber, cotton
		and silk goods, malt liquors, machinery.
HOBOKEN	N. J.	Lead pencils, iron, leather, silk, shipbuilding.
ITHACA	N. Y.	Drop forgings, firearms, typewriters, flour, glass. Engines and furniture.
JAMESTOWN	N. J. N. Y. N. Y. N. J.	Engines and furniture,
JERSEY CITY	N. J.	Iron and steel, meat packing, locomotives, soap and per-
7	N. Y.	fumes, abattoirs, sugar refineries.
JOHNSTOWN	Pa	Gloves, mittens. Iron, soft coal.
JOHNSTOWN	N V	Cement and brick.
Long Branch	P ₂ . N. Y. N. J.	(Seaside resort.)
McKeesport		Steel, iron, coal.
NEWAEK	N. J.	Chemicals, leather, malt liquors, jewellery, varnish,
		cutlery, clothing.
NEW BRUNSWICK .	N. J. N. Y.	Cigars, wall-paper, rubber.
NEWBURGH	N.Y.	Woollen goods, collars, ships, agricultural implements.
New York	Pa. N. Y.	Flour, glass, iron works.
116# 10#		Map making, lithographing, cotton, wool, wood, gold and silverware, india rubber, glass and glassware, iron and steel, boats and sails, patent medicine, brass and
	•	and steel, boats and sails, patent medicine, brass and
		copper, chemicals, tobacco, clothing, sugar.
Norsistown	Pa.	Hosiery, carpets, woollen goods, glass.
OIL CITY	Pa.	Engines, petroleum, iron pipes.
	N. J.	Hats.
Oswego	N. J. N. J. N. J.	Starch, boxes, stockings. Chemical works, woollens, silk, rubber works.
PASSAIC	N I	Textiles, breweries, silk, foundry products, steel and iron.
PERTH AMBOY .	N. I.	Shipping.
PHILADELPHIA .	Pa.	Shipyards, locomotives, carpets, woollen and silk goods,
		sugar refineries, cigars, drugs, chemicals.
PITTSBURG	Pa.	Coal, steel, iron, glass, locomotives, cork, salt, stoves, paper, leather, lumber, electrical machinery.
		paper, leather, lumber, electrical machinery.
Poughkeepsie	N.Y.	Flour mills, machine shops, foundries.
READING	Pa.	Iron and steel works, coal, limestone quarries, potteries.
ROCHESTER	N V	Photographic apparatus, seeds, clothing, boots and ahoes. Locomotives, brass and copper, canning factories.
SARATOGA SPRINGS	Pa. N. Y. N. Y. N. Y. N. Y.	·(Mineral aprings.)
SCHENECTADY	N. Y.	Locomotives, electrical supplies.
SCRANTON	Pa.	Silk, iron, mining, machinery.
SHAMOKIN	Pa.	Iron products, hard coal.
SHENANDOAH	Pa.	Hard coal.
South Ветиленем	Pa.	Armour plates, ordnance, ateel rails.
STAUNTON	Pa. N. Y. N. J.	Flour.
SYRACUSE	N. Y.	Iron and steel, machinery, shoes, automobiles, bicycles.
TRENTON	N. J.	Potteries, wire works, watches, furniture, oil-cloth. Shirt and collars, stoves.
TROY	N. J. N. Y. N. Y. N. Y.	Men's election shares roses
WATERTOWN	N V	Men's clothing, cheese, roses.
WAIERIUWN	Pa.	fron and steel, coal, silk, lace, wire rope, axles.
	4 64	1 TO I BIN SECT, COM, SILE, INCC, WHO TOPE, MAICH.
WILKESBARRE WILLIAMSPORT	Pa.	Furniture, doors, sash.
WILKESBARRE	Pa. N. Y.	Furniture, doors, sash. Yarn, carpets.

EAST NORTH CENTRAL STATES CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	BTATE	PRÎNCIPAL INOUSTRIES
	01:	W. II and the second includes a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
AKRON	Ohio Ind.	Woollens, cereals, automobiles, agricultural implements.
Anderson .	III.	Steel, iron, glass, brick. Foundries, machine shops, railroad cars, cotton mills.
AURORA BATTLE CREEK	Mich.	Cereals, farm implements.
BAY CITY	Mich.	Shipbuilding, lumber.
Belleville .	III.	Rolling mills, stoves, machinery, glass.
BLOOMINGTON .	III.	Farming implements, stoves, patent medicines.
CALUMET	Mich.	Copper-mining centre.
CANTON	Ohio	Safes and locks, watches, steel cars, farming implements.
CHICAGO	ili.	Iron and steel, meat packing, lumber, grain, stock-yard
Circulos		agricultural implements.
CHILLICOTHE .	Ohio	Flour, steam engines.
CINCINNATI .	Ohio	Men's clothing, iron and steel, boots and shoes, meat packing
		malt liquors, tobacco products.
CLEVELAND .	Ohio	Hardware, chemicals, automobiles, shipbuilding, iron an
		ateel, sewing-machines, petroleum refining.
Columbus	Ohio	Automobiles, shoes, iron and steel, wagons, leather, bicycles.
DAYTON	Ohio	Furniture, hops, registers, leather, paper, cigars, locks.
DECATUR	{ III.	Railroad scash iron, corn mills, agricultural implementa.
DETROIT	Mich.	Railway and street cars, stoves, automobiles, breweries.
EAST ST. LOUIS	Illi	Breweries, coal, locomotives, rolling mills.
ELGIN	III.	Watches, dairy products.
EVANSVILLE .	Ind.	Furniture, cigars, flour, saddlery, woollen and cotton goods.
FLINT	Mich.	Woollen mills, bicycles, carriages, and wagons.
FORT WAYNE .	Ind.	Machinery, automobiles, furniture, locomotives.
GRAND RAPIDS	Mich.	Furniture, gypsum quarries, bicycles, wagons, mirrors.
GREEN BAY .	Wis.	Sulphite, paper, lumber.
INDIANAPOLIS .	Ind.	Flour, machinery, horse, cattle, and hog market, grist mill.
JACKSON	Mich.	Flour, paper, sewer-pipe, carriages and wagons. Steel and iron goods.
TOLIET	Mich.	Clothing, paper, automobiles, machinery, patent medicines.
KENOSHA	Wis.	Leather, automobiles, furniture, flour, wagons, iron and bras
LA CROSSE	Wis.	Knit goods, flout, lumber, agricultural implements.
LA FAYETTE .	Ind.	Boots and shoes, carpets, woollen goods, flour, railway cars.
LANSINO	Mich.	Automobiles, flour, beet sugar, canned goods, machinery.
LOSAIN	Ohio	Steel, ship-building, fishing, coal shipping.
MADISON	Wis.	Flour, boots and shoes, tools, electrical machinery.
MILWAUKEE .	Wia.	Breweries, pork-packing, clothing, flour, machinery, iron as
11		ateel, leather, tobacco.
MUNCIE	Ind.	Canneries, flour, machine shops, iron and steel, glass.
Muskegon .	Mich.	Lumber, pottery, wagons, flour, lead-works.

EAST NORTH CENTRAL STATES—Continued CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	PRINCIPAL INDUSTRIES
NEW ALBANY . NEWARK . OSHKOSH . PEORIA . QUINCY . RACINE . RICHMOND . ROCKFORD . ROCK ISLAND .	Ind. Ohic Wis. III. III. Wis. Ind. Ind. III.	Tanneries, furniture, rolling mill, pork packing, glass. Glassware, flour, lumber, locomotives, cars. Flour, lumber, grass twine, agricultural implements. Flour, meat packing, breweries, lumber, machinery. Carriages, incubators, stoves, canning, flour. Automobiles, carriages and wagons, cooper goods, agricultural implements, bicycles. Flour, clothing, machinery, carriages, dairy products. Watches, agricultural implements, furniture. Lumber, agricultural implements, (U. S. arsenal).
SAGINAW	Mich.	Furniture, coal, beet sugar, lumber, salt, plate glass.
SANDUSKY	Ohio	Wine, tools, fishing, cooperage. Furniture, boots and shoes, shippard, lime-kilns.
SHEBOVGAN .	Wis.	Lumber, furniture, paper, automobiles, woollen goods, cutlery,
SOUTH BEND .	Ind.	harness.
Springfield .	III.	Textile works, coal, flour, car works.
SFRINGFIELD .	Ohio	Machinery, steam-engines, agricultural implements.
Superior	Wie.	Cooperage, shipyards, flour, lumber, iron and steel.
TERRE HAUTE	Ind.	Car works, flour, foundries, rolling mills.
Toledo	Ohio	Actomobiles, flour, scales, spice, distilleries, petroleum re-
Youngstown	Ohio	fineries, glass, iron, wooden articles. Rubber, oil cloth, iron and steel goods.

WEST NORTH CENTRAL STATES CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	PRINCIPAL INOUSTRIES
ABERDEEN	S. D. N. D. Iow2 Iow2 Iow2 Iowa Iowa	(Important railroad and trade centre.) Flour Lumber, foundry, carriages and wagons, machine shops. Pork packing, flour, cereals. Railroad machine shops, iron bridge work, lumber. Horses, steam-engines. Woollen goods, glucose, cooperage, brick and stone, carriages,
DES MOINES . DUSUQUE DULUTH	lowa Iowa Minn.	cordage. Pork packing, starch, flour, coal, glass, cotton products. Brewing, carriages and wagons, lumber, pork packing. Stockyards, iron and steel, flour, machine shops, blast furnaces, shipping.
FARGO GRAND FORKS HANNIBAL JEPFERSON CITY KANSAS CITY KANSAS CITY	N. D. N. D. Mo. Mo. Kan. Mo.	Flour, packing, railroad cars, planing mills, machinery. Live-stock, flour, Iumber, steam-boilers. Lime, cement, cigars, flour, agricultural implements. Bricks, flour, wagons. Meat packing, stockyards, steel, flour, railroad cars. Flour, meat packing, iron, furniture, railroad supplies.
LEAVENWORTH . LINCOLN MINNEAPOLIB . OMAHA	Kan. Neb. Minn. Neb.	Flour, dye-works, woollens, shoes, iron, furniture. Livestock, harness, oils and paints, lumber, grain. Flour, lumber, furniture, clothing, iron 2nd steel goods, paper, machinery. White lead works, breweries, machine 2nd locomotive works.
OTTUMWA PIERRE	S. D. Mo. Mo.	Flour, iron, pork packing, foundries, mining implements. Livestock, mining centre. Flour, men's shirts and overalls, stock-yards, meat packing. Tobacco and snuff, flour, beer, hardware, boots and shoes, stoves, chemicals, drugs, horse and mule market.
ST. PAUL SIGUX CITY . SIGUX FALLS SOUTH OMAHA TOPEKA . WATERLOO WICHITA WINONA . YANKTON	Minn. Iow2 S. D. Neb. K2n. Iow2 KEO. Minn. S. D.	Furniture, lumber products, stoves. Meat packing, flour, carriages and wagons, brooms, tiles. Brewing, quarrying, flour, baskets. Meat packing, stock-yards. Flour, lumber, railroad shops, quarrying, foundries, coal. Automobiles, gas-engines, machine shops, foundries. Confectionery, flour, saddlery and harness, meat packing. Flour, lumber, patent medicines, agricultural implements. Woollen goods, pork.

SOUTH ATLANTIC STATES CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	FRINCIFAL INDUSTRIES
ALEXANDRIA . ANNAPOLIS	Va. Md. N. C.	Iron, flour, shoes. Oyster packing. (Health resort.)
ASHEVILLE	Ga.	Cotton, flour, fertilizer, car wheels, mule market.
AUGUSTA BALTIMORE	Ga. Md.	Cotton. Meat packing, machine shop products, foundry, clothing,
CHARLESTON .	S. C.	tobacco, eteel, copper, iron, cotton duck. Machinery, carriages, flour, cotton.
CHARLESTON .	W. V2. N. C.	Oil, iron, coal, salt, lumber, distilleries. Cotton, resin and turpentine distilling.
COLUMBIA	S. C.	Machine and iron works, cars.
Columbus Cumberland .	Ga. Md.	Cotton, cottonseed-oil, iron, agricultural implements. Tanneries, flour, cement, iron foundries, steel works.
Danville Dover	V2. Del.	Tobacco. Canned fruit, timber, baskets and crates.
Durham Greensboro .	N. C. N. C.	Tobacco. Cotton, tobacco, steel.
Jacksonville .	Fla. Va.	Oranges, lumber.
MACON	G2.	Flour, shoes, dyes, cotton goods, tobacco, hardware, lumber. Cotton, yarn, duck, cordage, twine, hosiery, cottonseed oil, cottonseed meal, fertilizer.
Newfort News Norfolk	Va. Va.	Shipping.
PALM BEACH .	Fla.	Cotton, oyster and fishing, shipyards, tobacco, sugar. (Seaside resort.)
PARKERSSURG . PENSACOLA	W. V2.	Flour, Jumber, coal, farm products, oil refineries. (Important railroad terminus.)
Peterssurg . Portsmouth .	V ₂ . V ₂ .	Tobacco, cotton, lumber, silk, peanut oil, iron works. General trade.
RALEIGH	N. C.	Resin and turpentine distilling, cotton, flour, phosphate, cot- tonseed-oil.
RICHMOND .	V2.	Tobacco, locomotives, iron, machine shops, railway cars, lum-
ROANORE	V2.	ber mills, carriage works, fertilizer works. Steel and iron.
St. Augustine.	Fla.	(Winter resort; oldest permanent settlement of Europeans in the United States.) Car and machine shops, cigars, oyster canning, fishing.
SAVANNAH , SPARTANBURG	G ₂ , S. C.	Cotton, rice, fertilizer, ice, cottongeed-oil.
Тамба	Fla.	Cotton cloth, limestone quarries, iron mining. Tobacco. (Winter resort.)
Washington . Wilmington .	D. C. Del.	Shipyards, leather, furniture, paper, cotton, powder mills.

EAST SOUTH CENTRAL STATES CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	FRINCIPAL INOUSTRIES
BIRMINGHAM .	Ala.	Limestone, iron, coal, rolling mill.
CHATTANOOGA.	Tenn.	Coal and iron mining, cottons; steel and rail works, iron found-
E	V	ries, blast furnaces. Lumber, shoes, hrooms, hemp twine, canned vegetables.
FRANKFORT .	Ky. Miss.	Lumber products, cottonseed-oil mills.
Jackson Knoxville	Tenn.	Lumber, iron products.
LEXINGTON	Kv.	Saddlery, harness, flour, meat, stock-raising.
Louisville.	Ky.	Leather, whiskey, tobacco, cement, wagons.
Memphis	Tenn.	Cotton, cottonseed-oil, flour, pulp and paper mills.
Mosile	Ala.	Cotton, lumber, grist-mill products, ship and boat building,
MIGGILE	11144	foundry, machine shop.
MONTGOMERY	Ala.	Cotton, timber, cottonseed-oil and cake works, cordage.
NASHVILLE .	Tenn.	Tobacco, copper, flour, hardware.
NATCHEZ		(Important river port.)
NEWPORT	Ky.	Cigar boxes, furniture, carriages, iron.
PAQUEAH	Ky.	Tobacco, saddles, lumber, stoneware,
SELMA	Ala.	Cotton-gins, cottonseed-oil, lumber, fertilizer, yarn.
VICKSBURG .	Miss.	Cottonseed-oil, planing mills, foundries, machine shops.

WEST SOUTH CENTRAL STATES' CHIEF CITIES AND INDUSTRIES

STATE,	PRINCIPAL INDUSTRIES
Tex.	(Supply centre for extensive district.)
La.	Cottonseed products, lumber, sugar, molasses.
Tex.	Saddlery, iron and metal works, cotton-gin machinery, woollen,
	mills, cottooseed oil, cotton compresses.
Ark.	Cotton, cottonseed oil, brick, furniture.
	Bagging mills, rope, rice, breweries, cotton presses.
	Flour, lumber.
	(Sulphur waters; health resort.)
	Lumber, cottonseed oil.
	Cottonseed-oil, machinery, timber products, flour, rice, to-
Da.	bacco, sugar.
Okla	Cotton, flour, iron, wood-working.
	Flour, cotton presses, cement, oil, broom works, cotton, wool,
ICA.	horse, mule, and cattle market.
T a	Cotton.
	Clothing, cotton goods, saddlery and harness, carriages.
	La.

MOUNTAIN STATES CHIEF CITIES AND INDUSTRIES



CITY OR TOWN	BTATE	FRINCIPAL INDUSTRIES
	NY 14	
ALSUQUERQUE .	N. M.	(Important railroad and trade centre.)
BILLINGS BISBEE	Mont, Ariz,	Beet sugar.
Boise	Idaho	Copper mining, smelting. (Mining centre.)
BUTTE	Mont.	Copper, gold, and silver mining.
CARSON CITY .	Nev.	Mining, lumbering, agriculture.
CHEYENNE	Wyo.	(Centre of cattle industry of northwest; important railroad
	,	centre.)
COEUR O' ALENE	1daho	Brick making,
COLORADO SFRINGS	Colo.	(Health resort.)
CRIFPLE CREEK .	Colo.	Gold mining, cyanide mills, smelting.
DENVER	Colo.	Smelting ore, canning and packing, glass, iron and steel works.
GRAND JUNCTION	Colo.	Brass and iron foundries, planing mills,
GRBAT FALLS .	Mont.	Brass and iron foundries, planing mills. Smelting, flour, mining and agricultural implements.
GREELEY	Colo.	Machinery, beet augar, agriculture.
GOLDFIELD	Nev.	Gold mining.
HELENA	Mont.	Silver and gold mining.
LEADVILLE	Colo.	Lead, silver and gold mining.
MISSOULA	Mont. Utah	Iron, tile and brick works, lumber mills.
PHOENIX	Ariz.	Canneries, beet sugar, woollen mills.
POCATELLO	Idaho	Flour and olive-oil mills, creameries. Railroad shops, breweries, concrete blocks.
Pueblo	Colo.	Smelting, steel works, stock raising, railway car shops.
SALT LAKE CITY	Utah	Beet sugar, iron products, machinery.
SANTA FE	N. M.	Brick, filigree jewellery, pottery.
SHERIDAN	Wyo.	Wool, lumber, coal mining.
TUCSON	Ariz.	Mining, cattle, railroad shops.
VIRGINIA CITY .	Nev.	Silver mining.

PACIFIC STATES EF CITIES AND INDUSTRIES

CHIEF CITIES AND INDUSTRIES			
CITY OR TOWN	STATE	PRINCIFAL INDUSTRIES	
Alameda Bakersfielo . Berkeley	Cal. Cal. Cal.	Ship building. Machine 2nd car shops, fruit packing. Farming, fruit.	
BILLINGHAM EUREKA	Wash. Cal. Wash.	Saw-mills, canneries. (Important trade centre.) Lumber and lumber products. Flour, lumber, paper, (mining centre; gold, silver, lead,	
FRESNO LONG BEACH LOS ANGELES .	C2l. Cal. Cal.	and copper). Cultivation of fruit, wine, raisins, stock raising. (Seaside resort.) Transhipment trade in oranges and citrus fruits. (Winter	
NORTH YAKIMA . OAKLAND	Wash.	resort.) Flour, wood-working, canneries. Canneries, ship-building, iron works, flour, lumber.	
OLYMPIA	Wash, Cal. Ore,	(Health resort.) Lumber, flour, furniture, cordage, canned goods, woollen	
RIVERSIDE	Cal.	goods, wagons and carriages. (Winter resort: heart of orange growing region.) Flour, lumber, railroad cars, saddlery, harness	
SALEM	Ore.	Flour, woollens. (Centre of most important hop growing region in the world.)	

PACIFIC STATES-Continued CHIEF CITIES AND INDUSTRIES

CITY OR TOWN	STATE	PRINCIPAL INDUSTRIES
SAN DIEGO	Cal. Cal. Cal. Cal. Wash.	Machine shops, planing mills, flour. (Health resort.) Sugar and molasses refineries, shipbuilding, mining ma- chinery, canning, leather, smelting works. Canning, packing houses, shipping, flour, lumber. (Winter resort.)
SPOKANE	Wash.	Shipyards, lumber and shingle mills, flour, rolling mills, foundries. Lumber, flour, furniture, brick and terra-cotta works.
STOCKTON	Cal. Wash.	Flour, agricultural implements, window-glass, canneries. Smelting, lumber, car-shops, flour and rolling mills, pack- ing houses, furniture.
WALLA WALLA .	Wash.	Farming implements and machinery, flour and lumber mills.

Commerce.—More than one-half of the foreign trade of the United States is carried on with the British Empire. Out of a total of \$6,531,000,000 (imports and exports) in 1915-1916, \$2,973,000,000 represents the trade with the British Empire. United States trade is also carried on with the following countries: France, Italy, Germany, Austria-Hungary, Russia, Netherlands, Spain, Portugal, Greece, Belgium, Switzerland, Sweden, Norway, Turkey, Japan, China, Dutch East Indies; and with the following Latin American republics: Argentina, Brazil, Chile, Colombia, Mexico, Peru, Venezuela, etc.

Latin American republics: Argentina, Diazii, Chine, Peru, Venezuela, etc.

CHIEF IMPORTS.—The leading imports into the United States in order of value are: sugar, crude rubber and gutta-percha, hides and skins, unmanufactured wool (hair of the camel, goat, etc.), unmanufactured silk, coffee; chemicals, drugs, and dyes; manufactures of vegetable fibres and textile grasses, wood and manufactures of wood, unmanufactured fibres, manufactures of copper, tin, oils, manufactures of cotton, precious stones, fenits and nuts. unmanufactured cotton, crude cocoa and cacao, seeds, silk fruits and nuts, unmanufactured cotton, crude cocoa and cacao, seeds, silk manufactures, tobacco, paper and paper manufactures, meat and dairy products, breadstuffs, iron and steel manufactures, furs, tea, leather and leather manufactures, fish; spirits, malt liquors, and wines; manufactures of wool; copper ore, vegetables, fertilizers, earthenware and chinaware, historican can be accepted because of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the competition of the comp

of work, vegetables, retrievels, eartherware and chinaware, bituminous coal, toys, glass, and glassware.

Chief Exports.—The leading exports from the United States in order of value are: iron and steel (crude and manufactured), explosives,* breadstuffs, unmanufactured cotton, meat and dairy products, copper and manufactures of copper, carriages and other vehicles, brass and manufactures of brass, mineral oils, leather and manufactures of leather; chemicals, drugs dves and medicine, cotton manufactures animals sugar, and more districts of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th drugs, dyes and medicine; cotton manufactures, animals, sugar and molasses, coal, wood and manufactures of wood, tobacco (raw and manufactured), woollen manufactures, fruits and nuts, rubber manufactures, paper and manufactures of paper, oil cake and oil-cake meal, vegetable oils, manufactures is vegetable oils and textile grasses, fish, agricultural implements, naval sures, paraffin and paraffin wax, paints, etc., furs and fur skins; grease, grease scrap, etc.; soap, scientific instruments, green coffee, fertiligrans, house household and personal effects, seeds, and musical instruments. zers, hops, household and personal effects, seeds, and musical instru-

COMMUNICATIONS.—The railroads of the United States have increased from 23 miles in 1830, 52,922 miles in 1870, 167,191 miles in 1890, 198,964 miles in 1900, 249,992 miles in 1910, to 264,378 miles in 1915. See Table

of Railways, p. 333.

The telegraphs are largely controlled by the Western Union Telegraph Company, which has about 240,000 miles of line, with over 1,610,000 miles of wire, and 25,142 offices. The Postal Telegraph-Cable Company operates 66,154 miles of line and 408,735 miles of wire.

The telephones operated by The American Telephone and Telegraph Company, and Associated Companies (Bell System) in the United States represent over 18½ millions miles of wire.

For Automobile Routes,

DEPENDENCIES OF THE UNITED STATES (See Map, pp. 76-77)

PHILIPPINE ISLANDS

(See Map, p. 68)

The Philippine Islands form a volcanic group in the Pacific Ocean, and are distant about 500 miles from the southeast coast of Asia. Their total land area is about 115,000 square miles; population, 7,635,000. The principal islands are Luzon (area, 40,969 square miles; population, 3,798,000), Mindanao (area, 36,292 square miles; population, 500,000), Samar (area, 5,031 square miles), Negros, Panay, Palawan, Mindoro, Leyte, Cebu, Bohol, and Machate

The inhabitants, apart from the Europeans and Americans, consist of aborigines, called Negritos; the Igolotes, probably of Chinese descent, who are the agriculturists of the islands; and the Tagalos, who are Malay immigrants. Until 1898 the islands formed a Spanish colony, but after the Spanish-American War they were ceded to the United States as territorial indemnity for the expenses of the war.

PRODUCTS AND INDUSTRIES.—Agriculture is the principal industry of the archipelago, and employs over one-half of the working population. The chief crops are hemp, rice, maize, sugar, tobacco, and coconuts; the exports being principally hemp, copra, sugar, and tobacco; the imports are cotton goods, rice, wheat, flour, fresh meat, boots and shoes, iron and steel manufactures, petroleum, and paper. The principal manufactures

are cigars and cigarettes.

The principal ports are Manila (population, 250,000), the capital, in the island of Luzon; Cebu (population, 60,000); and Iloilo (population, 50,000).

PORTO RICO (See Map, p. 94)

Porto Rico is an island of the Greater Antilles group in the West Indies; area, 3,606 square miles; population, 1,118,000. The island is about 100 miles from west to east, and 40 miles from north to south at the western end, narrowing toward the eastern extremity. Porto Rico was sighted by Columbus in 1493, and was occupied by Spain from 1508 to 1898, in which year it was captured by the United States. Included in the annexation are the islands of Vieques (100 square miles), Culebra (30 square miles), and several islaes.

Mona (20 square miles), and several islets.

Sugar is grown in the low-lying districts, and tobacco and coffee on the slopes of the hills; fruits, cotton, maize, sweet potatoes, rice, and yams are also grown. The trade is principally with the United States. San Juan (population, 49,000) the capital, and Ponce (36,000) are the chief harbours.

GUAM

(See Map, p. 76)

Guam is the largest of the Ladrone or Marianne Islands in the North Pacific Ocean, about 1,450 miles east of Manila. Its area is 210 square miles; population, 14,000. The island was discovered by the Portuguese navigator Magellan in 1521, and was occupied by Spain from 1688 to 1898. Only a small part of the island is cultivated, although the available land is fertile and the climate favourable. Coconuts, rice, sugar, coffee, and cacao are grown in small quantities. The wooded slopes of the plateau and the valleys contain valuable timber. $Aga\tilde{n}a$ (population, 7,000) is the capital. Apra is the port of entry. Apra is the port of entry.

AMERICAN SAMOA

(See Map, p. 76)

The island of Tutuila and other Samoan islands east of 171°W. longitude came into the possession of the United States in February, 1900; total area, 77 square miles; population, 7,000. Tutuila contains a magnificent harbour at *Pagopago*, the capital. Copra and cocoa beans are exported.

WAKE AND OTHER ISLANDS

(See Map, p. 76)

The flag of the United States was hoisted on Wake Island in 1899, and other islands in the Pacific have been annexed from time to time, including Johnston, Palmyra, and Medway.

AMERICAN VIRGIN ISLANDS

(See Map, p. 118)

The Islands of St. Croix, St. Thomas, and St. John, in the Virgin group of the Lesser Antilles, were purchased from Denmark, and taken possession of by the United States on March 31, 1917. The islands lie about 50 miles from Porto Rico; area, 142 square miles; population, 32,000. St. Croix is the largest, richest, and most populous of the three islands; it has much rich sugar land. St. Thomas is declared by naval officers to possess advantages enabling it to be converted into a second Gibraltar. St. John, the smallest of the three islands, is of economic importance, for it is from here that come the leaves of the bay tree (Pimenta acris), from which bay rum that come the leaves of the bay tree (*Pimenta acris*), from which bay rum is prepared. Most of the bay rum is made in St. Thomas. All the islands have a striking variety of vegetation. The plantain, banana, bell apple, orange, mango, sapodilla, and lemon flourish.

CANAL ZONE

(See Map, pp. 116-177)

Panama Canal.—The completion of the Panama Canal is one of the greatest engineering achievements of the world—it is doubtless the greatest of our age. The figures relating to its construction are almost beyond comprehension. The excavations alone amount to 242,000,000 cubic yards. A similar excavation would be sufficient to make a railway tunnel through the centre of the earth 14 feet in diameter and 8,000 miles in length. The concrete used (5,000,000 cubic yards) would construct a wall 8 feet thick, 12 feet high, and 266 miles long—from New York City to Washington, D. C., and 38 miles beyond. The canal itself is a monument to stupendous effort in the face of almost insurmountable difficulties; its furne history has effort in the face of almost insurmountable difficulties; its future history has yet to be made, but it will undoubtedly greatly influence the commerce of the world, especially that of the United States, and improve her military and naval positions.

Its History.—The first suggestion for a canal across the 1sthmus of Panama was made by a Spanish engineer in 1530, and surveys were actively engaged upon by various private companies between the years [1825] and 1830. In 1876 a concession for the construction of a canal was granted to a French promotion corporation which conducted surveys during a period of two years, and reported to an international congress held at Paris in May, 1879, over which Ferdinand de Lesseps presided. This congress advised the construction of a canal at sea-level, and in 1881 the work was undertaken by the Universal Interoceanic Panama Canal Company, of which de Lesseps was nominal head. After two years of preparatory work, the first excavation was made on January 20, 1882. The amount of work to be accomplished proved to be greater than was estimated, and the conditions under which it was carried on more embarrassing. Sickness, interference of local officials, and mismanagement by the administration in Paris, resulted in the failuse of the company, and a receiver was appointed in 1889. Under direction of the French courts a new company was formed to carry on the work, and after a period of surveys, excavation was resumed in 1894. This was continued until May 4, 1904, when the United States Government took possession.

Two years were spent by the United States Government in sanitation, the assembling of plant, and organization and housing of a labour force; after which operations on a large scale were begun on all parts of the canal. The labour force varied from 700 on May 4, 1904, 17,000 in 1905, 29,000 in 1907, to 50,000 in 1913. The total cost is estimated at \$375,000,000, including, in addition to the canal construction, the \$40,000,000 paid to the French canal company, \$10,000,000,000 paid to the Republic of Panama, and the cost of terminal facilities. For further description, see **Introduction*, p. xxii, *Map of **Canal Zone*, p. 31, also under **Republic of **Panama*, p. 327.

^{*}Exceptionally large on account of the Great War.

ALASKA

(See Map, p. 235)

UNTOLD ECONOMIC WEALTH.—The Territory of Alaska is a great mining and agricultural country on the same latitude as Sweden. Its forests and its minerals are sources of vast potential wealth. Yet because of inadequate railway service and high freight rates the territory remains largely unexploited.

The people of Alaska have a vision of the valleys of their interior territory dotted with towns of permanent industry where men make their homes and rear their families, towns with smelters, machine shops, stores, churches, and schools built of the timber from the surrounding hills and fed with the produce of adjacent farms. This does not mean settle-ment like a German landscape, but settlement such as there is now in Colorado. Between this vision and realization looms the great Alaskan mountain range and the cost per ton

mile of moving freight.

LACK OF TRANSPORTATION.—In a thousand-mile half-circle along the coast stretch the mountains, in places 50 miles wide, widening out elsewhere to 200 miles. Behind them lie the gold-floored valleys that contain many other metals, and the wide-sweeping farm lands that promise a permanent development. Fairbanks on the Tanana River, is the centre of the great interior; and the freight service from tidewater to Fairbanks is the measure of Alaska's prosperity. There are two main freight routes to Fairbanks, one from the southeast and one from the southwest. Both use the great river of the north, for the Yukon is navigable from its mouth in Bering Sea, 2,000 miles across Alaska, into Canada, and to within 110 miles of salt water again at White Horse. If a miner at Fairbanks orders a boiler shipped to him by the southeastern route, it comes by steamer 1,000 miles from Puget Sound up the inland passage to Skagway. There it is rans-shipped to the narrow-gauge White Pass & Yukon Railroad, which climbs nearly 3,000 feet up White Pass, crosses the divide, and winds down on the other side 110 miles to White Horse on the upper Yukon. There the boiler is handled again, this time being loaded on a little Canadian river steamer which carries it 460 miles to Dawson. Once more there is unloading and loading; and the boiler is stored away on an American river steamer that makes the last 1,000 miles of the trip to Fairbanks.

But this route is so very expensive that most of the freight goes by the northwestern route—2,700 miles by steamer around the Aleutian Islands to St. Michael. And after this long trip, even when St. Michael is reached, Fairbanks is still 1,100 miles away upstream. Steamers whose appearance suggests the old days on the Mississippi make this last stage of the journey; but they make the trip only in the summer, for during eight or nine months of the year the mouth of

the Yukon is icebound.

Such is the cheapest freight service to the metropolis of central Alaska, and the merchant who uses this service has to buy a year's supply at a time and pay interest and storage on it. The freight rate on the necessities of life, which amounts to about \$135 a year for every man, woman, and child in the interior, is what keeps down the population. Moreover, the river traffic is in the hands of a trust. There used to be two fleets of boats on the river. Now one fleet is on the beach at St. Michael. It was bought and put out of

business by the rival company.

Though traffic with the States is done chiefly in summer on the river, almost all other traffic moves in winter. Passengers and a little high-class freight come into Fairbanks through the mountains to the south. From Cordova and from Valdez —the northernmost ice-free ports—travellers and such freight traffic as will bear the cost reach the interior through the valley of the Copper River. From Valdez to Chitina there is a Government-built wagon road. From Cordova to Chitina (132 miles) is the Copper River & North-western Railroad. From Chitina the Government road extends through Delta Pass to the Tanana and down to Fairbanks. Over this road the winter stages slip along on runners. passenger's fare is \$125, or about 35 cents a mile; and at the road houses near the summit of the pass, the rates are \$2 a

meal and \$2 a bed.

Along the Yukon and the Tanana rivers the dog sledges pass to and fro all winter; and on the Seward Peninsula dogs and reindeer compete for the honour of carrying freight. They are nearly evenly matched, too; and in the yearly races from Nome to Bluff and Council and on to Candle, first the dog teams win and then the reindeer, while the sporting fraternity watch the race bulletins at the telephone terminals as the "World's Series" returns are watched in the States.

But in both summer and winter the Territory suffers from

lack of transportation. Altogether there are less than 500 miles of railroad. About a third of the total mileage is narrow gauge, and one stretch of 71 miles of standard gauge is not in operation except with dog teams. There are two or three little railroads on the Seward Peninsula, but the only road of a hundred miles in length in the whole Territory is the Guggenheim Copper River road from Cordova to the Kennicott-Bonanza mine.

What is in this great interior that justifies railroads?

First and foremost there is gold.

Gold.—In the valleys of the Alaskan range, and all through the interior as far north as the Endicott range beyond the Arctic Circle, there are men washing gold. These placer miners prospect chiefly near the beds of streams, for they need running water in the simple methods which they use to separate the gold from the gravel. Almost any stream in interior Alaska will show some gold, but with the primitive placer process that is available under Alaskan conditions, only rich soil can be worked profitably. So the prospectors roam over the country searching for rich "strikes." And when one does "strike it rich" a rush begins. Gold news flashes over the wires, and men pull up stakes in Nome, Iditarod, Fair-banks, Valdez, and in the country all the way south to Se-attle and the States, and rush for the new field. They come by river and overland, by foot and by horse and by dog

In mining as well as in transportation, one kind is done in winter and another in summer. Working in the sands of a river bed is easier in winter when the bed is frozen and the mine shaft will not fill with water. The shafts themselves are thawed out with steam. There are hundreds and hundreds of little upright boilers in Alaska making steam to thaw out the ground. The steam is carried from the boiler into a set of pipes that are driven into the ground four or five feet apart. Shafts have been sunk three hundred feet and every foot of it had to be thawed out, for no one has ever gotten below frost in Alaska. In the summer the ice in the beds of running streams thaws, and away from the streams, where the trees and moss are cut down and cleared away, the surface will thaw a little; and for these reasons it is during the summer that most of the mining is done.

COAL.—Besides its gold, Alaska is blessed with coal, although this has long been a blessing in disguise. The forces of conservation and spoliation met on the Alaskan coal fields, and while the battle was fought the fields themselves lay idle and the railroads that were started toward them were

abandoned by their builders.

On both sides of Cook Inlet are beds of lignite coal, and other beds lie between the Inlet and Mt. McKinley. farther north, within fifty miles of Fairbanks, lie the Nenana fields, in which there is a good grade of lignite coal occurring in numerous beds from five to twenty feet thick. The beds are tilted but otherwise are not badly disturbed, and some time undoubtedly they will be worked, not for export, but for local use, to generate electricity and heat. The Nenana fields could supply electric power for the railroad that opened them, light for Fairbanks and other settlements, and power for mines in the neighbouring region. It is even possible that the river steamers that now go empty toward the sea might take Nenana coal to Ruby and St. Michael. Nome and St. Michael now get fuel from a lignite mine on the southern

shore of Cook Inlet.

COPPER.—Copper arready has its railroad. The one line of any consequence that is still in operation is the Guggenheims' Copper River road from Cordova to the Kennicott-Bonanza mine, one of the most profitable mines in the world. Its traffic alone practically supports these 195 miles of line. There are alone practically supports these 195 miles of line. There are many other rich copper lodes in different parts of Alaska, not in the hands of men able to finance their own railroads, that need transportation before they can be worked, just as there are many extensive low-grade gold ore deposits in Alaska that will furnish freight and labour and yield rich returns as soon as lower freight rates make such development possible.

DEVELOPMENT WAITS FOR THE RAILROADS.—It is not southeastern coastal Alaska but central Alaska-the Tanana, the Susitna, and the Kuskokwim valleys—that is looked upon to yield the produce and to feed the cattle to supply the needs of the people. Fairbanks is in about the same latitude as Christiania, and the agricultural valleys of Norway and Sweden are as far north as the Alaskan valleys. The climate of inland Alaska, behind Mt. McKinley.and the glaciers, is similar to the climate of Alberta, Saskatchewan, and Manitoba, which have recently made such strides in agriculture. Moreover, there has been enough farming in the interior to show that it is practicable. In the timbered country, after the trees and moss are cleared away, the first summer's sun thaws the surface and in the second summer the ground is ready for crops; and there are wide sweeps of grass land that do not have to be cleared at all.

The valley of the Tanana River is a valley of rich soil and in many places has a heavy growth of grasses. Where Fairbanks makes a market there are farms that raise potatoes, oats, rye, barley, hay, and vegetables; and though it is necessary to winter-feed stock, beef cattle and milk cattle can fare well in this region. . . . Agricultural development in Alaska to-day is more promising than agriculture was in many of our now-flourishing Western States fifty or sixty years ago. Into the few valleys where the local market will support farming, the homesteader has gone. Elsewhere he, like almost everybody and everything else in Alaska, awaits he coming of the railroad.

The one great exception to this statement is the fish industry. It belongs on the coast. Every summer it is in evidence from St. Michael to Sitka. Ships and fishermen, canneries and cannery workers, fill this coast with industry. As fall comes the canneries are shut and the ships carry back to the States the cannery workers and every trace of the industry except the deserted buildings. Some day perhaps this may change and the salmon-canning business may make homes in Alaska, but now its chief effect upon the other industries of the Territory is to provide better steamer service than they otherwise would have and to supply a cheap food not only to Alaska but to the whole United States.

But excepting only the fisheries, Alaska waits for railroads.1

ALASKA RAILROADS.—The first arterial route of a Government railroad in Alaska, reaching from the coast to navigable waters of the interior, was designated by President Wilson in April 1915.

The route adopted, known as the Susitna route, extends from Seward, on Resurrection Bay, to Fairbanks, on the Tanana River, a distance of 471 miles. This route includes the existing Alaska Northern Railway which runs from Seward through the Kenai Peninsula for a distance of seventyone miles to Turnagain Arm, and it is to be bought from its present owners by the Government for \$1,150,000. The contract for the purchase of this road was signed by Secretary Lane of the Interior Department.

From Turnagain Arm the route is to be extended through the Susitna Valley and across Broad Pass to the Tanana River, and from there on to Fairbanks. It is to be a standard-gauge road. A side line is to run from Matanusca Junction into the Matanusca coal field, a distance of thirtyeight miles. The road is to be built with its present base at Ship Creek, on Cook Inlet. The grade from the Matanusca field to Ship Creek is four-tenths of I per cent.

The Alaska Northern is to be put into operative condition and will be used as a base for extending the line along Turnagain Arm. Under the contract approved by the President, the road is taken over free from all debt or obligation of any

SYNOPSIS OF ALASKA (See Map, p. 235)

The Territory of Alaska was purchased by the United States from Russia

The Territory of Alaska was purchased by the United States from Russia in 1867 for the sum of \$7,200,000. The transfer was formally made at Sitka on October 18, 1867. Alaska was organized as a territory on July 27, 1868. It has an area of 590,884 square miles, and a population of 64,000. Physical Features. There are four well-defined divisions, corresponding to those of the Western States. The Pacific Mountain System includes the coastal range of the Alaskan Penninsula (known as the "Panhandle" on account of its shape), with summit levels of from 5,000-6,000 feet; the St. Elias range, with many peaks above 14,000 feet; the Alaskan range, which includes many active volcanoes, and Mt. McKinley (20,300 feet), the highest point in the territory. The Rocky Mountain System crosses the Yukon boundary and extends over the northeastern portion of Alaska, with peaks of 6.000 feet; the Central Plateau Region which occupies most of the interior of boundary and extends over the northeastern portion of Alaska, with peaks of 6,000 feet; the Central Plateau Region which occupies most of the interior of the Territory, with an elevation of from 3,000-5,000 feet; and the Arctic Slope Region, with a maximum altitude of 2,000-3,000 feet.

YUKON RIVER. The principal river of Alaska is the Yukon, which has a total length of 2,200 miles, and with its tributaries a total navigable length (May to September) of over 3,000 miles, of which three fourths are in Alaska. Its principal territories are the Tanana and the Koyukuk..

CLIMATE. The coastal regions have a fairly equable temperature and a heavy rainfall, but the winters of the interior are very severe, and the summers uncertain.

mers uncertain.

PRODUCTS AND INDUSTRIES.—(1) Agriculture. The soil of Alaska is rich and capable of agriculture development; the principal impediment to this is the shortness of the summer. In the coastal region and various regions of the capable of agriculture development; the principal impediment to this is the shortness of the summer. In the coastal region and various regions of the Yukon Valley, hardy vegetables in great variety can be produced successfully. There is little doubt that over the greater part of southeastern Alaska such grains as buckwheat, barley, and oats, and possibly also wheat and rye, could be cultivated with reasonable prospects of success. It is estimated that one sixth of the territory is suitable for pasture and tillage. The live stock is being replenished, and reindeer have been introduced from Siberia and now number more than 50,000. The Agricultural Department has established successful experimental stations at various points within the Territory, demonstrating that vegetables, grains, grasses and live stock are adapted to the climate. The Government railroad will make available for settlement the many thousands of acres of agricultural lands.

(2) Forests. The forest area is close on 27,000,000 acres, and includes many varieties of cedar, fir, spruce, and hemlock. At present there is little development of the timber resources of the Territory.

(3) Fisheries. Cod, herring, salmon, and seal fishing are important industries. Cod can be taken with comparatively little hardship. Herrings furnish oil and guano, and the young fish are packed as "sardines" at Juneau. The salmon industry dates from 1878. The output since 1900 has been more than half the total salmon product of the United States, and it is more than ten times the product of all other fish. On the Karluk River, Kodiak Island, is the largest salmon fishery in the world. These salmon fisheries have been conducted in the past in a recklessly wasteful manner.

The fur seal industry has been somewhat better protected, but not sufficiently so to prevent these animals from being threatened with early exter-

The fur seal industry has been somewhat better protected, but not sufficiently so to prevent these animals from being threatened with early extermination. The walrus, hunted for its ivory tusks, and the sea otter, the rarest and most valuable of Alaskan fur animals, are rapidly becoming extinct. The whale fishery also has fallen off; the whales are now sought for the baleen alone.

baleen alone.

(4) Minerals. Alaska is rich in minerals, and is rapidly becoming one of the greatest metal and mineral producing countries in the world. Gold, copper, and tin are extensively produced. Gold was first found in 1861, but as yet no veins of the richness of the Klondyke deposits thave been discovered. Tin was discovered in the Tanana Valley in 1912. This is one of the metals not produced in the United States. We are now importing \$40,000,000 to \$50,000,000 worth of tin annually; and Alaska is undoubtedly destined to produce the greater part, if not all, of the tin that the United States requires. Oil has been found in many parts of the public domain. The resources of the coal fields of the Nenana districts are estimated at more than 150 billion tons. The Bering River, the Matanuska Valley, and the Nenana fields, containing deposits of high-grade character, were subdivided into townships by Government surveyors during 1915 and 1916. The building of the Government railway will facilitate the development of the coal fields.

Juneau is situated on the Gastineau Channel in the southeast, and became the capital in 1906. (4) Minerals. Alaska is rich in minerals, and is rapidly becoming one of

the capital in 1906.

Exports.—Since the commencement of tabulated records of Alaska's exports the output has been:—

			SINCE 1867*	FISCAL YEAR 1915-16
Gold			\$260,488,175	\$16,195,635
Copper	,		46,281,148	26,488,288
Silver			3,011,153	759,962
Other Minerals .			2,751,638	449,518
Fisheries and Furs	٠		299,581,890	20,202,400
Other Merchandise			1,705,820	479,688

^{*}By far the greater portion since 1899, or only fifteen years.

¹⁰wen Wilson in The World's Work.

INDEX

CITIES AND TOWNS OF THE UNITED STATES

LATEST CENSUS

In this compilation the official population figures, as determined by the Thirteenth (1910) Census of the United States, are given for all cities, villages and boroughs separately enumerated by government officials; of the places not separately enumerated by the Census Bureau, and for which there are no government figures obtainable, recent estimates, supplied by local officials and by our reliable authorities, are given. Several states made enumerations in 1915 and where these new figures are given, notations are made following name of individual state. Capitals of states are printed in capital letters, and places having one hundred or more inhabitants are named. The index references enclosed in parentheses, indicate location of city or village on the accompany maps.

Some comparatively unimportant places have been omitted from the maps to avoid crowding and consequent indistinctness in the engraving; such omitted towns will be found in the list, and the situation on the map, in each case, may readily be determined by means of the index-reference letters and numbers.

			BAMA			
Abbevtile, (G8) . 1,141 Calebee, (F7)	East Taliassee, (F6) 2,000 East Thomas, (D4) 1,500 Echola, (B5) 200 Echola, (B5) 200 Echola, (B5) 200 Echola, (B5) 200 Echola, (B6) 165 Edwardsville, (F4) 330 Effer, (D8) 300 Effort, (E8) 100 Elamville, (F8) 200 Elba, (E9) 1,079 Eldridge, (B4) 120 Eliza, (E9) 1,079 Eldridge, (B4) 120 Eliza, (F2) 150 Elik, (C3) 100 Eliza, (E1) 150 Elik, (C3) 100 Eliza, (E2) 150 Elk, (C3) 100 Eliza, (D2) 188 Elmore, (E6) 300 Elvira, (D5) 250 Elyton, (D4) 1,000 Emauhee, (E5) 300 Emelle, (A6) 300 Emelle, (A6) 300 Emelle, (A6) 300 Emelle, (A6) 300 Emelle, (A6) 300 Enon, (F7) 300 Ensley, (D4) 8,200 Enterprise, (F9) 2,32 Epes, (A6) 374 Equality, (E6) 200 Enterprise, (F9) 321 Euphronia, (E7) 130 Estaboga, (E4) 94 Eufaula, (G8) 4,259 Eucola, (F9) 321 Euphronia, (E7) 100 Eurcka, (E4) 130 Eutaw, (B6) 1,001 Evergreen, (D9) 1,582 Exsho, (A9) 100 Ezra, (C5) 250 Fackler, (F2) 150 Fairfield, (D4) 600 Fairview, (D2) 237 Falco, (D9) 200 Falkville, (D3) 335 Farmersville, (D3) 335 Farmersville, (D9) 200 Falkville, (D3) 352 Fayette, (B4) 636 Fayetteville, (E5) 190 Frenhaok, (A4) 180 Frinchhurg, (B8) 200 Fitzpatrick, (F7) 398 Fitzpatrick, (F7) 398	Grand Bay (A10) 200 Grand Granger, (G9) 200 Grant, (E2) 100 Gransell, (C5) 100 Grassellh, (C5) 100 Gravelly Spr'gs, (B2) 100 Gravelly Spr'gs, (B2) 100 Gravelly Spr'gs, (B2) 100 Gravelly Spr'gs, (B2) 100 Gravelly Spr'gs, (B2) 100 Greenville, (C4) 428 Greeley, (C5) 300 Green Pond, (C5) 250 Greensboro, (B6) 2,048 Green Springs, (D4) 100 Greenville, (D8) 3,377 Grimes, (G9) 100 Grove Hill, (B8) 300 Guerryton, (F7) 100 Guin, (B4) 356 Guntersville, (E3) 1,145 Gurley, (E2) 750 Gurnee, (D5) 200 Hackleburg, (B3) 286 Hackneyville, (F5) 150 Haleburg, (G9) 100 Haleyville, (B3) 1,111 Hamburg, (C6) 150 Hamburg, (G9) 100 Haneveille, (D3) 464 Hamnah, (F2) 100 Haneveille, (D3) 464 Hannah, (F2) 100 Hardrod, (F7) 100 Hardrod, (F7) 100 Hardrod, (F7) 100 Hardrod, (F9) 1,159 Hartsells, (D3) 1,374 Hatchechubbee, (G7) 250 Harpersville, (E5) 190 Hardrod, (F9) 120 Havana, (B6) 140 Hawnidge, (F9) 120 Havana, (B6) 140 Hawnidge, (F9) 120 Haygood, (E9) 130 Haynoville, (D7) 400 Heddland, (G9) 1,000 Heilion, (F4) 839 Helena, (D5) 400 Herbert, (D9) 300 Hillaboro, (C2) 202 Hixon, (C8) 150 Hillaboro, (C2) 202 Hixon, (C8) 150 Hobson City, (F4) 344 Hokes Bluff, (F4) 300 Hollios, (E5) 688 Holly Pond, (D3) 180 Hollywood, (E2) 234 Holt, (C5) 500 Howels (C3) 200	Lanett, (G6)	New Castle, (D4). 100 New Decatur, (C2) 6,118 New Hope, (E2). 301 New Market, (E2) 300 New Market, (E2) 300 Newriver, (B4). 100 Newsite, (F5). 300 Newriver, (B4). 100 Newsite, (F5). 300 Newton, (F9). 524 Newville, (G9). 522 Nokomis, (B9). 200 Normal, (D2). 100 North, (E3). 100 North Birmingham, (D4). 5,500 Northport, (B5). 500 Northport, (B5). 500 Notasulga, (F6). 512 Nottingham, (E5) 100 Oak Grove, (A10). 100 Oak Grove, (A10). 100 Oak Grove, (A10). 100 Oak Mill, (C8). 300 Oakman, (C4). 1,065 Octagon, (B7). 100 Odenville, (E4). 100 Odhatchee, (E4). 100 Oldenville, (E4). 100 Oldenville, (E4). 100 Oldenville, (E4). 100 Olney, (A5). 155 Oneonta, (D4). 609 Ono, (D4). 100 Opelika, (G6). 4,734 Opp, (E9). 863 Orestes, (D8). 150 Orroville, (C7). 255 Osceola, (F3). 200 Owansa, (D9). 100 Owansa, (D9). 100 Oxanna, (F4). 1,090 Oxanna, (F4). 1,090 Oxmoor, (D5). 500 Oxanna, (F4). 1,090 Oxanna, (F4). 1,090 Oxanna, (F4). 1,090 Oxanna, (F9). 2,229 Paint Rock, (E2). 534 Palmetto Beach, (B11). 330 Palose, (G6). 190 Pansey, (G9). 106 Pansstore, (G6). 150	Saint Elmo, (A10) 100 Saint Florian, (B2) 450 Saint Stephens, (A8) 180 Salem, (G6) 150 Samson, (E9) 1,350 Sanders, (G9) 100 Sandusky, (D4) 491 Sandy, (C6) 100 Sandyridge, (D7) 200 Sanford, (E9) 742 Saraland, (A10) 200 Sayretolle, (B6) 100 Sayretol, (D4) 600 Sayreton, (D4) 600 Sayreton, (D4) 400 Schuster, (C8) 100 Scotia, (E7) 150	Tennille, (F8)
Altoona, (E3)	Eggalarly, (A9). 130 Estaboga, (E4). 94 Estataupa, (A9). 130 Estaboga, (E4). 94 Eufaula, (GS). 4,259 Eunola, (FP). 321 Euphronia, (E7). 100 Eureka, (E4). 130 Eutaw, (B6). 1,001 Eureka, (E4). 130 Eutaw, (B6). 1,001 Evergreen, (D9). 1,582 Exsho, (A9). 100 Ezra, (CS). 250 Fackler, (F2). 150 Fairfield, (D4). 600 Fairhope, (B10). 590 Fairview, (D2). 237 Falco, (D9). 200 Falkville, (D3). 335 Farmersville, (D1). 100 Fatama, (C8). 300 Fileyatriek, (B7). 352 Fayette, (B4). 636 Fayetteville, (E5). 190 Fisk, (D2). 300 Filzpatriek, (F7). 398 Fivepoiots, (GS). 200 Filat Creek, (C4). 600 Flatwood, (B7). 100 Flatana, (C9). 539 Florala, (E9). 2,439 Florence, (B2). 6,689 Flossy, (C2). 180 Foley, (B11). 200 Forest Home, (D8). 300 Fort Davis, (F7). 200 Fort Davis, (F7). 200 Fort Davis, (F7). 200 Fort Davis, (F7). 200 Frosters, (B5). 110 Franklin, (C8). 150 Fruitdule, (A9). 250 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G4). 257 Fruitdurst, (G8). 100 Gainesville, (A6). 532 Galilion, (B7). 100 Galinesville, (A6). 532 Gallion, (B7). 200	Hawrioge, (19) 130 Hayneville, (D7) 400 Heaylood, (E9) 130 Hayneville, (D7) 400 Headlaad, (G9) 1,090 Hellina, (D5) 400 Hellina, (D5) 400 Hellena, (D5) 400 Herbert, (D5) 400 Herbert, (D9) 300 Hickoryflat, (G5) 150 Higdon, (F2) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Highad Home, (E8) 100 Hollina, (D5) 100 Highad Home, (E8) 100 Hollina, (E5) 688 Holly Pond, (D3) 180 Hollina, (E5) 688 Holly Pond, (D3) 180 Hollywood, (E2) 234 Holf, (C5) 500 Howels Crossroads, (F3) 100 Howels Crossroads, (F3) 100 Hunter, (B2) 100 Huntsville, (D2) 7,611 Huntsbord, (G7) 764 Hymer, (F2) 100 Inverness, (F7) 200 Inverness, (F8) 150 Issey, (A8)	Lowndesboro, (D7) 500 Luthers Store, (B7) 250 Luthers Store, (B7) 250 Lutherne, (E8) 1,384 McCullum, (C4) 200 McDowell, (B7) 100 McFail, (E4) 1,000 McGale, (F3) 250 McKialey, (B7) 200 McKieley, (B7) 200 McKieley, (B7) 200 McNiel, (C9) 150 McShan, (A5) 100 McWilliams, (C8) 184 Maben, (C4) 200 Madison, (D2) 426 Madrid, (G9) 100 Magazine, (A10) 250 Magnolia, (B7) 500 Magnolia Springs, (B11) 200 Malone, (F5) 150 Malvern, (F9) 100 Malone, (F5) 150 Malvern, (F9) 100 Manchester, (C4) 500 Manistee, (B9) 150 Maplesville, (D6) 500 Marbury, (D6) 100 Marpham, (C8) 150 Maryun, (C6) 1,834 Marioa Junc., (C7) 200 Maros, (C9) 150 Marvel, (C5) 400 Marvyn, (G7) 300 Marvyn, (G7) 300 Mathews, (E7) 200 Maryun, (G7) 300 Mathews, (E7) 200 Maryun, (G7) 300 Mathews, (E7) 200 Maylene, (D5) 350 Maysville, (E2) 220 Mchama, (B2) 300 Mcltonsville, (E3) 100 Memphis, (A5) 200 Midland City, (F9) 39 Midway, (F7) 464 Millport, (A4) 529 Midland, (F4) 51,521 Monroeville, (C8) 616 Montcalm, (B4) 150	Old Spring Hill, (B7) 100 Oleander, (D3) 100 Oleander, (D3) 100 Oleander, (D3) 100 Oleander, (D4) 609 Ono, (D4) 100 Opelika, (G6) 4,734 Opp, (E9) 863 Orestes, (D8) 150 Orion, (F8) 150 Oxana, (F3) 200 Owassa, (D9) 100 Owassa, (D9) 100 Oxana, (F4) 100 Oxford, (F4) 1,090 Oxana, (F4) 100 Oxford, (F4) 1,090 Oxana, (F8) 2,229 Paint Rock, (E2) 534 Palmetto Beach, (B11) 330 Palmetto Beach, (B11) 330 Palos, (C4) 200 Panola, (A6) 190 Pansey, (G9) 106 Panstone, (G6) 150 Parcoal, (B3) 100 Pekshill, (F4) 100 Pekshill, (F4) 100 Pekshill, (F4) 100 Pelham, (D5) 100 Pelham, (D5) 100 Pelham, (D5) 100 Perdue Hill, (C8) 350 Perdue Hill, (C8) 350 Perdue Hill, (C8) 350 Perdue Hill, (C8) 350 Perdue Hill, (C8) 350 Perdue, (F8) 240 Perryville, (C6) 100 Pheron, (G7) 4,555 Pickcasville, (A5) 214 Piedmont, (F4) 2,226 Pirece, (A10) 100 Pigeoncreek, (D8) 627 Pinegrove, (F7) 200 Pinchalf, (B8) 470 Pine Level, (E7) 250 Pinkaey City, (D4) 358	Robjohn, (A/) . 150 Rockford, (E6) . 1,600 Rock Mills, (G5) . 349 Rock Run, (F3) . 500 Rockwest, (C8) . 150 Rockwood, (B3) . 240 Rogersville, (C2) . 650 Rosehill, (E9) . 100 Romand Mountain, (F3) . 210 Rosemary, (B6) . 100 Round Mountain, (F3) . 210 Ruse, (B5) . 200 Russell, (A9) . 200 Russell, (A9) . 200 Russell, (A9) . 200 Russell, (A9) . 200 Russell, (A9) . 150 Rutledge, (E8) . 230 Saco, (F8) . 200 Safford, (C7) . 150 Safford, (C7) . 150 Safford, (C7) . 150 Safford, (C7) . 150 Safford, (C7) . 150 Saint Clair, (D7) . 100 St. Clair Spr'gs, (E4) 150 Saint Florian, (B2) Soant Stephens, (A8) Salem, (G6) . 150 Samson, (E9) . 1,350 Sanders, (G9) . 1,300 Sandord, (E9) . 1,350 Sanders, (G9) . 1,350 Sandors, (G9) . 1,350 Sandors, (G9) . 1,350 Sandors, (G9) . 1,350 Sandors, (G9) . 1,00 Sandord, (E9) . 742 Saraland, (A10) . 200 Samyerville, (B6) . 100 Sanford, (E9) . 742 Saraland, (A10) . 200 Sayre, (D4) . 600 Sayreton, (D4) . 400 Scotta, (E7) . 150 Scottand, (C8) . 100 Scottand, (C8) . 100 Scottand, (C8) . 100 Scottand, (C8) . 100 Scottand, (C8) . 100 Scottand, (C8) . 100 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Brooksi (B9) 100 Delmar, (B5) 100 Brooksville, (E3) 100 Deposit, (E2) 100 Brookwood, (C5) 1,550 Detroit, (A3) 160 Browns, (C7) 200 Dixons Mills, (B7) 200 Dixons Mills, (B7) 150 Brundidge, (F8) 815 Dolomite, (C5) 1,000 Buena Vista, (C8) 200 Dora, (C4) 916 Burleson, (B3) 100 Doran, (B9) 150 Burnsville, (D7) 200 Dothan, (G9) 7,016 Butler, (A7) 250 Double Springs, (C3) 200 Index of the United States, Copyright 1911 and 1911	Glen Allen, (B4). 100 Glen Carbon, (D5) 200 Glencoe, (F4). 500 Glenville, (G7). 320 Glenwood, (E8). 336 Good Water, (E5) 740 Gordo, (B5). 707 Gordon, (G9). 293 Goshen, (E8). 347 Grace, (D8). 100 Graham, (G5). 200	Kirkwood, (C4) 130 Knoxville, (B6) 100 Kymulga, (E5) 100 Ladiga, (F4) 150 Lafayette, (G6) 1,632 Lagarde, (F4) 200 Lahusage, (F2) 250 Lamar, (G5) 150 Lambert, (A9) 130 Lamison, (B7) 250 Landersville, (C3) 200	(G6). 300 Mount Andrew, G8 300 Mount Nebron, (A6) 150 Mount Hope, (C3) 300 Mount Meigs, (E7) 150 Mt. Pleasant, (B9). 100 Mount Sterling, (A7) 100 Mount Vernoa, (A9) 800 Mount Wernoa, (A9) 800 Mount Willing, (D7) 300 Mulga, (C4). 400 Munford, (F4). 400	Powers, (B6). 250 Prairie, (C7). 180 Prairie, (C7). 180 Prairie, (C7). 100 Pratt City, (D4). 4,000 Prattville, (D7). 2,222 Prentice, (B7). 200 Pushmataha, (A7). 100 Pyriton, (F5). 200 Quinton, (C4). 100 Radford, (C6). 150	Stantong Rock, (GS) 300 Stanton, (D6) 400 Steele, (E4) 100 Stevenson, (F2) 574 Stewart, (B6) 300 Stewartsville, (ES) 150 Stockdale, (E5) 100 Stocks Mill, (F4) 100 Stockton, (B10) 1,400 Stouts Mountain, (D3) 500	Womack Hill, (A8) 10 Woodlawn, (D4) 3,20 Woodstock, (C5) 50 Woodward, (C5) 1,00 Wyeth City, (E3) 40 Wylam, (D4) 3,00 Yellow Pine, (A9) 50 Yolande, (C5) 1,00 York, (A7) 7, Yucca, (F2) 15

ARIZONA

Benson, (E7). 900 Chloride, (A3). 470 Bigbug, (C4). 100 Christmas, (E5). 200 Bisbee, (E7). 9,019 Clifton, (F5). 4,874 Blackwater, (D5). 250 Cochise, (F6). 100 Bonita, (F6). 100 Cochran, (D5). 100 Bowie, (F6). 200 Columbia, (C4). 100 Brownell, (C6). 200 Concho, (F4). 260 Bryce, (F6). 200 Congress, (B4). 1,000 Buckeye, (C5). 400 Constellation, (C4) 250 Campyerde, (D4). 300 Copper Creek, (E6) 100	Crowley, (E5)	Geronimo, (F5). 100 Gila Bend, (C6). 200 Gleeson, (F7). 500 Glendale, (C5). 250 Globe, (E5). 7,083 Grand Canyon, (C2) 250 Greer, (F4) 100 Groom Creek, (C4) 300 Hackberry, (B3). 100 Hamburg, (E7). 150 Harshaw, (E7). 100 Helvetia, (E7). 100 Holbrook, (E4). 450 Hubhold, (F6). 100	Kingman, (A3), 1,000 Lehi, (D5) 300 Liberty, (C5) 150 Lochiel, (E7) 100 Lowell, (F7) 2,500 McCabe, (C4) 300 Mammoth, (E6) 400 Maricopa, (D5) 100 Matthews, (F6) 200 Maxton, (C4) 200 Mesa, (D5) 1,692 Metcalf, (F5) 2,500 Miami, (E5) 300 Middlemarch, (E7) 300 Mohave City, (A3) 180	Nogales, (E7) 3,514 Octave, (C4) 500 Oro Blanco, (E7) 100 Owens, (B4) 150 Paradise, (F7) 100 Parker, (A4) 400 Patagonia, (E7) 500 Payson, (D4) 170 Pearce, (F7) 700 PHO ENIX, (C5) 11,134 Pima, (F6) 500 Pine, (D4) 100 Pinedale, (E4) 100 Pirescott, (C7) 1,500 Prescott, (C4) 5,992	Roosevelt. (D5). 800 Rosemont. (E7). 150 Sacaton, (D5). 250 Safiord, (F6). 929 Saint David, (E7). 500 Saint Johns, (F4). 1,250 San Carlos, (E5). 5,000 Sasco, (D6). 300 Show Low, (F4). 150 Silverhell, (D6). 700 Silverking, (D5). 100 Solomoosville, (F6). 500 Solomoosville, (F6). 750 Springerville, (F4). 600 Supai, (C3). 100	Thatcher, (F6). 904 Tombstone, (F7). 1,582 Toreva, (E3). 550 Troy, (E5). 200 Tubac, (D7). 300 Tubac, (D7). 300 Tucson, (E6). 13,193 Twin Buttes, (D7). 300 Walker, (C4). 150 Warren, (F7). 180 Wellton, (B6). 200 Wendeo, (B5). 160 Whitchills, (A3). 100 Wickenburg, (C5). 570 Williams, (C5). 570 Williams, (C3). 1,267
Buckeye, (C5) 400 Constellation, (C4) 250	Florence, (D5) 807 Fort Apache, (F5). 300	Hubbard, (F6) 100 Humboldt, (C4) 100	Middlemarch, (E7) 100 Mohave City, (A3). 180	Pirtleville, (F7) 1,500 Prescott, (C4) 5,092	Springerville, (F4). 600 Supai, (C3) 100	Williams, (C3) 1,267
Casa Blanca, (D5). 1,200 Courtland, (F7) 500	Fort Thomas, (E5) 150	Junction, (C4) 100	Mowry, (E7) 500	Ray, (E5) 100	Taylor, (E4) 100	Yuma, (A6)2,914

CALIFORNIA

COLORADO

Almosa, (H9) 3,013 Cardiff, (E4) 180 Edith, (F9). Alman, (J6) 145 Castle Rock, (K5) 365 Altona, (J3) 100 Cedaredge, (D6) 295 Elizabeth, (Amity, (P7) 150 Center, (G8) 385 Elkton, (J6) Ames, (D8) 150 Center, (G8) 385 Elkton, (J6) Anaconda, (J6) 164 Cheraw, (N7) 300 Emman, (E5) Animas Citty, (D9) 200 Cheyenne Wells, (D6) 270 Empire, (H4 Antonito, (H9) 681 Chivington, (O7) 130 Englewold, Argo, (J4) 100 Chromo, (F9) 100 Englewold, Argo, (J4) 100 Chromo, (F9) 100 Englewold, Argo, (H4) 26 Cokedale, (K9) 250 Ester, (J3) Arriba, (N5) 250 Coalcreek, (J7) 676 Espinoza, (H Arvow, (H4) 26 Cokedale, (K9) 250 Estes Park, (J8) Aspen, (F5) 1,834 Cholbran, (D5) 156 Eureka, (D8 Avada, (J4) 840 Collbran, (D5) 156 Eureka, (D8 Avada, (J4) 840 Collbran, (D5) 156 Eureka, (D8 Avada, (J4) 840 Collbran, (D5) 156 Eureka, (D8 Avada, (J4) 840 Collorado City, (K6) 29,078 Eriestone, (K Avadale, (K7) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 29,078 Eriestone, (K B) 20,078 Eriest	(J4) . 712 Granada, (P7) . 359 (Kiowa, (L5) . 100 . 293 Granby, (H3) . 40 (Kline, (C9) . 100 (Sokomo, (G5) . 183 (Kios) . 194 Grandlake, (H3) . 100 (Kokomo, (G5) . 183 (K5) . 194 Grandlake, (H3) . 100 (Layalte, (J3) . 141 (K5) . 194 Grandlake, (H3) . 100 (Layalte, (J3) . 1892 (Layalte, (J3) . 1892 (Layalte, (J3) . 1892 (Layalte, (J3) . 1892 (Layalte, (J3) . 1892 (Layalte, (J3) . 1892 (Layalte, (J3) . 1892 (Layalte, (J4) . 179 Greeley, (K3) . 8,179 (Layalte, (J4) . 179 Greeley, (K3) . 8,179 (Layalte, (J4) . 179 Greeley, (K3) . 8,179 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) . 194 (Layalte, (J4) .	Montezuma, (H4) 134 Radiant, (J7), 200 South Fork, (F8), 150 Montrose, (D6), 3,254 Ramah, (L5), 200 Springfield, (O9), 100 Monumeut, (K5), 149 Redellif, (G4), 383 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville, (L9), 1,000 Starkville,
Canfield, (J3)	J6)1,112 Julesburg, (P2)	Portland, (K7)
Abington, (H5) 225 Collinsvuie, (E5) 2,500 Forestville, (F Adams, (C7) 200 Columbia, (G6) 450 Gales Ferry, Addison, (F6) 300 Comstock's Bridge, Gardner Lake	(H7) 125 Litchfield, (D6) 903 Noroton Heights, (B8) 500	(H5)
Andover, (F2). 470 Ansonia, (D7). 15,152 Cornwall Bridge, (C5). 100 Ashford, (H5). 300 Coronwall Hridge, (C5). 100 Ashford, (H5). 300 Coronwall Hridge, (C5). 100 Aspetuck. (C8). 150 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C5). 100 Coronwall Hridge, (C6). 2,000 Coronwall Hridge, (C6). 300 Coronwall Hridge, (C5).	(e., (16) 130 Long Hill, (CT)	Poquionock, (FS)
	DELAWARE	
Bellevue, (J1). 250 Christiana, (H2). 400 Faulkland, (H Bellevue, (J1). 250 Claymont, (J1). 400 Faulkland, (H Bethany Beach, (J6) 56 Clayton, (H3). 764 Felton, (H4). Bethel, (H6). 370 Concord, (H6). 350 Frankford, (J Blades), (H6). 350 Dagsboro, (J6). 150 Frederica, (H Blades, (H6). 350 Dagsboro, (J6). 176 Georgetown. Brandywine (H2). 1,132 Georgetown. Springs, (H2). 100 Delmar, (H7). 530 Grubbs, (J1). Bridgeville, (H6). 939 Dover, (H4). 3,720 Harbeson, (J6 Camden (H4). 553 Edgemoor, (J1). 500 Harrington, (Cannon, (H6). 100 Ellendale, (J5). 216 Hartly, (H4).	Michigan Michigan Michigan Midigan M	Newport, (H2). 722 Selbyville, (J7). 342 Winterthur, (H2). 220 Oakel, (H6). 100 Smyrna, (H3). 1,843 Wooddale, (H1). 200 Ocean View, (J6). 302 Stanton, (H2). 300 Wooddale, (H6). 270 Odessa, (H3). 585 Stockley, (J6). 170 Summit Bridge, (H2). 130 Port Penn, (H2). 299 Redlion, (H2). 100 Taylora Bridge, (H2). 130 Taylora Bridge, (H3). 250 Townsend, (H3). 494 Risingsun, (H4). 300 Winterthur, (H2). 220 Wooddale, (H1). 200 Woodside, (H4). 300 Wyoming, (H4). 310 Taylora Bridge, (H3). 250 Townsend, (H3). 494 Viola, (H4). 250 Townsend, (H3). 494 Winterthur, (H2). 220 Wooddale, (H1). 200 Woodside, (H4). 300 Wyoming, (H4). 316 Taylora Bridge, (H2). 1250 Willowgrove, (H4). 250 COLUMBIA Tacoma Park, (E5). 1,159 Saint Georges, (H2). 264 WLMINGTON, (E5). 331,069

FLORIDA

1015	STATE	CENSUS	FIGURES
1919	SIVIE	CENSUS	FIGURES

Alachua, (D2) 744 Candler, (E2) Alafia, (D4) 100 Capps, (C1)	00 Dukes, (D2) 100	Glenwood, (E2) 100 Goldsboro, (E3) 286	Kingsford, (E4) 150 Kingston, (E2) 200	Midway, (B1), 150 Millcreek, (E2) 100	Pauway, (E3) 200 Paxton, (B6) 359	Sorrento, (E3) 150 South Jacksonville,
Alford, (A1) 215 Carrabelle, (B2)	50 Dunedin, (D3) 429 50 Dunnellon, (D2) 979 50 Durhin, (E1) 100	Gotha, (E3)	Kirkwood, (D2) 110 Kissimmee, (E3)4,221 Knights Key, (E7). 150	Millcreek, (E2) 100 Milligan, (B6) 250 Millview, (A7) 500 Millville, (A1) 692	Pauway, (E3)	(E1)
Alton, (C1) 1,050 Cassia, (E3). Altoona, (E3) 200 Caxambus, (E6). Alva, (E5). 200 Cedar Keys, (C2). Anclote, (D3). 100 Center Hill, (E3).	50 Dunnellon (D2) 975 50 Durhin, (E1) 100 50 Durhin, (E1) 100 60 Dutton, (D2) 300 75 Duval, (E1) 100 60 Eagle Lake, (E4) 100 60 Eagle Lake, (E4) 100 61 East Palatka, (E2) 100 62 East Palatka, (E3) 122 63 East Palatka, (E3) 122 64 Eden, (E4) 125 65 Eldridge, (E3) 172 67 Elfers, (D3) 100 67 Elklon, (E2) 100 68 Elklon, (E2) 100 69 Ellaville, (C1) 380 60 Emporia, (E2) 60 60 Emporia, (E2) 60 60 Emporia, (E3) 60 60 Escambia, (A7) 100	Graceville, (A1)	Kirkwood, (D2) 110 Kissimmee, (E3) 4,221 Knights Key, (E7) 150 Komoko, (D2) 125 Labelle, (E5) 240 Laccochee, (D3) 150	Millville, (A1). 692 Milton, (B6). 1,415 Minneola, (E3). 150 Modello, (F6). 100	Perry, (C1)1,911 Picolata, (E2)200 Piedmont, (E3)100	Spring Garden, (E2) 150 Springhill, (B1) 200 Starke, (D2)1,239 Steinhatchee, (C2) 150
Anclote, (D3) 100 Center Hill, (E3) Anthony, (D2) 406 Centerville, (B1) Apalachicola, (A2).3,400 Centralia, (D3)	95 East Palatka, (E2). 100 10 Eatonville, (E3) 122 00 Eau Gallie, (F3) 543	Grandin, (E2) 100 Grand Island, (E3). 75 Grand Ridge, (B1). 300	La Crosse, (D2) 350 Lady Lake, (E3) 110 Lake Alfred, (E3) 253	Modello, (F6). 100 Molino, (A6). 220 Montbrook, (D2). 295 Montevista, (E3). 130 Monticello, (C1). 2,040 Montverde, (E3). 120 Morriston, (D2). 296 Morse, (E3). 100 Moseley Hall, (C1). 300 Mossbluff, (E2). 280 Mossybead, (B6). 100 Mount Dora, (E3). 576 Mount Pleasant, (B1). 100	Pierce, (E4)	Steinhatchee, (C2). 150 Stuart, (F4) 599 Summerfield, (D2) 230
Anthory, (D2). 100 Center Hill, (E3). Anthony, (D2). 406 Centerville, (B1). Apalachicola, (A2).3,400 Centralia, (D3) Apopka, (E3) 598 Century, (A6) Arcadia, (E4) 3,504 Chaires, (B1) Arch Creek, (F6). 200 Champaign, (C1). Archer, (D2). 282 Charlotte Harbor,	00 Ebb, (C1)	Greencove Springs, (E2)2,287 Greensboro, (B1)297	Lake Butler, (D1). 832 Lake City, (D1)3,422 Lake Como, (E2) 200	Monticello,(C1)2,040 Montverde, (E3) 120 Morriston, (D2) 296	Pine Barren, (A6) 300 Pinecastle, (E3) 100 Pinehurst, (E1) 150	Steinfatchee, (C2). 150 Stuart, (F4) 599 Summerfield, (D2) 230 Summit, (E2) 120 Sumner, (D2) 150 Sumterville. (F3). 200
Archer, (D2). 282 Charlotte Harbor, Argyle, (C6). 250 (D4). Armstrong, (E2). 200 Chaseville, (E1). Arran, (B1). 130 Chattahoochee, (B1)	Eldridge, (E2) 172 70 Elfers, (D3) 100 100 Elkton (E2)	Greenwood, (A1) 622 Greenwood, (A1) 400 Greenwood, (B1) 131	Lake Como, (E2) 200 Lake Helen, (E3) 786 Lake Jackson, (B1) 100 Lakeland, (D3) 7,287	Morse, (E3) 100 Moseley Hall, (C1). 300 Mossbluff (E2). 280	Pinellas Park, (D4) 223 Pinemount, (D1) 275 Pinetta (C1) 225	Sumterville, (E3). 200 Sutherland, (D3). 300 Suwanee, (C1). 125 Svea, (B6). 150
Arran, (B1) 130 Chattahoochee, (B1) Arran (B1) 300 Chester, (E1) 150 Chipley (A1)	00 Ellaville, (C1) 380 10 Ellenton, (D4) 497	Gretna, (B1)	Lake Maitland, (E3) 157 Lake Mary, (E3) 100	Mossyhead, (B6) 100 Mount Dora, (E3). 576 Mount Pleasant	Plant City, (D3)3,229 Planter, (F6)300	Sweetwater, (E4). 150 Taft, (E3). 216 TALLAHASSEE,
Ashrore, (B1) 150 Chipley, (A1) 1, Ashton, (E3) 100 Christina, (E4) Ashville, (C1) 100 Christmas, (E3) 2	00 Emperise, (E2) 60 00 Enterprise, (E3) 200	Groveland, (E3) 100 Grove Park, (D2) 170 Gulf Hammock,	Lakewood (F6) 324	(B1)	Point Washington, (B7)	(B1)
Auhurndale, (E3). 511 Chuluota, (E3). 1 Aucilla, (C1). 500 Chumuckla, (B6). Avonpark, (E4). 418 Citra, (D2). 4 Bagdad, (B7). 500 Citronelle, (D3). 2 Bakers Mill, (D1). 100 Citypoint, (F3). 1	00 Escambia, (A7) 100 00 Espanola, (E2) 130 00 Estero, (E5) 170	(D2) 100 Gulfport, (D4) 284 Hague, (D2) 200 Haines City, (E3) . 378 Hallandale, (F5) 407	Lake Worth, (F5) 612 Lamont, (C1) 490 Largo, (D4) 552 Laurelhill, (B6) 300	Murdock, (D4) 250	Pompano, (F5) 484	Tarpon Springs,
Bagdad, (B7) 500 Cttronelle, (D3) 2 Bakers Mill, (D1) 100 Citypoint, (F3) 1 Baldwin, (E1) 570 Clark, (D2) 2	Description Content Hallandale, (F5) 407 Hamburg, (C1) 150	Laurennii, (Bo) 300 Lawtey, (D1) 532 Lecanto, (D3) 130	Mount Pleasant, (B1)	Ponce Park, (F2). 150 Portland, (B6) 75	Tavares, (E3) 449 Telogia, (B1) 200 Terra Ceia, (D4) 200	
Barberville, (E2) 100 Clarksville, (A1) 4 Bartow, (E4)3,412 Clearwater, (D4)1,5 Bascom, (A1) 100 Clermont, (E3) 3	00 Eulalia, (E1) 100 32 Eureka, (E2) 300 00 Eustis, (E3) 1,148	Hamburg, (C1) 150 Hampton, (D2) 349 Hampton Springs, (C1) 175	Lawtey, (D1) 532 Lecanto, (D3) 130 Lee, (C1) 212 Leesburg, (E3) 1,360 Lemon City, (F6) 300	Nassauville, (E1) 50 New Augustine, (E2)1,716	(C6)	Terrell, (D3)
Baldwin (E1). 570 Clark, (D2). Barberville, (E2). 100 Clarksville, (A1). 4 Bartow, (E4). 3,412 Clearwater, (D4). 1,5 Bascom, (A1). 100 Clermont, (E3). 3 Bassenger, (F4). 100 Cleveland, (E5). 1 Banter, (D1). 90 Cocoa, (F3). 8 Bayard, (E1). 130 Cocoanutgrove, (F6) 8 Bavidge (F3). 140 Coldwater, (A6). 1	7 Evinston, (D2)	Harney, (D3) 200 Harwood, (E2) 100 Hastings, (E2) 558	Levon, (D3) 300	Newberry, (D2)1,000	(D4)1,071 Princeton, (F6)100 Providence, (D2)300	Trenton, (D2) 550
Bayridge, (E3) 140 Coldwater, (A6) 1 Bayview, (E5) 121 Coleman, (D3) 3 Bell, (D2) 250 Columbia, (D1) 2	00 Fairfield, (D2) 120 39 Falmouth, (C1) 110 00 Fanlew, (B1) 100	Havana, (H1) 486 Hawks Park, (F3) 178 Hawthorn, (D2) 496	Limestone, (E4) 100 Limona, (D4) 100 Lisbon, (E3) 100	New Smyrna, (F2).2,012 Newtown, (D2) 200 Niceville, (B7) 150	Punta Gorda, (E5).1,772 Putnam Hall, (E2). 100 Quincy, (B1)3,451	Turners, (E5) 100 Tyler, (D2) 300 Umatilla, (E3) 527 Verdie, (E1) 100
Bayridge, (E3). 130 Cocoanutgrove, (Fo) Bayridge, (E3). 140 Coldwater, (A6). 1 Bayview, (E5). 121 Coleman, (D3). 3 Bell, (D2). 250 Columbia, (D1). 2 Belleair, (D4). 130 Concord, (B1). 2 Belleview, (D2). 182 Conway, (E3). 1 Bellville, (C1). 130 Cook, (A1). 1 Belmore, (E2). 100 Coquina, (E1). 1 Benhaden, (B1). 100 Cottagehill, (A6). 1 Bentage, (D1). 100 Cottagehill, (A6). 1	0 Federal Point, (E2) 279 0 Fellsmere, (F4) 898 0 Fernandina, (E1)3,114	Hernando, (D3) 592 Hibernia, (E1) 100 Highland, (E1) 200	Lithia, (D4) 100 Little River, (F6) 300 Liveoak, (C1)3,294	Nichols, (D4) 200 Nixon, (A1) 180 Nocatee, (E4) 250	(D4) . 1,071 Princeton, (F6) . 100 Providence, (D2) . 300 Punta Gorda, (E5) 1,772 Putnam Hall, (E2) . 100 Quincy, (B1) . 3,451 Raiford, (D1) . 500 Reddick, (D2) . 191 Redland, (F6) . 130 Redlevel, (D2) . 150 Rerdell, (D3) . 150	Verdie, (E1)
Aucilla, (C1). 500 Chumuckla, (B6). Avonpark, (E4). 418 Citra, (D2). 500 Chumuckla, (B6). Avonpark, (E4). 418 Citra, (D2). 500 Citronelle, (D3). 500 Clark, (D2). 500 Clark, (D3). 500 Clark, (D4). 500 Clark,	32 Eureka, (E2). 300 Eustis, (E3). 1,148 30 Eve, (D2). 100 30 Fairhanks, (D2). 100 30 Fairhanks, (D2). 100 31 Fairheid, (D2). 120 32 Falmouth, (C1). 110 33 Federal Point, (E2). 279 34 Felsmere, (F4). 898 35 Fernandina, (E1). 3,114 36 Fessenden, (D2). 200 37 Fessenden, (D2). 200 38 Felswere, (C1). 100 49 Felswere, (C1). 100 50 Fessenden, (D2). 200 61 Florahome, (E2). 150	Hampton Springs, (C1)	Levyville, (D2). 280 Limestone, (E4). 100 Limotone, (E4). 100 Limona, (D4). 100 Lisbon, (E3). 100 Lithia, (D4). 100 Lithia, (D4). 300 Literal, (C1). 3,294 Lloyd, (B1). 300 Lochloosa, (D2). 110 Longwood, (E3). 200 Loretto, (E1). 100 Lotus, (F3). 100	Norma, (A1) 832 Norwalk, (E2) 120 Oakhill, (F3) 100	Redlevel, (D2) 150 Rerdell, (D3) 150 Rio, (F4) 100 River Junction, (B1) 600	Verren, (B1). 100 Verren, (B1). 100 Vernon, (A1). 160 Vicksburg, (A1). 100 Wakulla, (B1). 100 Wakulla, (B1). 100 Walkill, (E2). 150 Warrington, (B7). 1,400 Waterfown (D1). 250
Benton, (D1) 100 Cottondale, (A1) 3 Beresford, (E2) 100 Courtenay, (F3) 1 Bishopsville, (E2) 110 Cow Creek, (F3) 1 Blackman, (B6) 250 Crainlyn, (E7) 1	0 Flemington, (D2) 200 0 Florahome, (E2) 150 0 Floral Bluff, (E1) 100	Holder, (D3) 370 Hollister, (E2) 200 Holly Hill, (E2) 378	Loretto, (E1) 100 Lotus, (F3) 100 Loughman, (E3) 100	Oakland, (E3) 250 O'Brien, (D1) 280 Ocala, (D2)5,370	River Junction, (B1) 600 Rochelle, (D2) 200 Rockledge, (F3) 100 Rockwell, (D2) 100 Rosalie, (E4) 100	Walkill, (E2) 150 Warrington, (B7)1,400 Watertown, (D1) 250
Bishopsville, (E.Z.). 110 Cow Creek, (E.3). 1 Blackman, (B6) 250 Crainlyn, (E7) 1 Bland, (D2) 100 Crawford, (E1) 1 Bitchton, (D2) 200 Crawfordville, (B1). 3 Biontstown, (A1). 927 Crescent City, (E2) 8 Bluffsprings, (A6) 700 Crestview, (B6) 1 Boardman, (D2) 150 Crews (Wille, (E4) 1	 Floral City, (D3) 488 Florida City, (F6) 368 Fogartyville, (D4) 250 	Hollister, (E2) 200 Holly Hill, (E2) 378 Holt, (B6)	Lovett, (C1) 150 Lowell, (D2) 100 Lukens, (C2) 200	Ocoee, (E3) 130 Ojus, (F6) 150 Okahumpka, (E3) 200	Rockwell, (D2) 100 Rosalie, (E4) 100 Rosewood, (D2) 250	Watertown, (D1). 250 Wauchula, (E4). 1,839 Waukeenah, (C1). 300 Wausau, (A1). 400 Webster, (D3). 307 Weisrade, (E2). 359
Benhaden, (B1) 100 Cottagehill, (A6) 1 Benlon, (D1) 100 Cottondale, (A1) 3 Beresford, (E2) 100 Courtenay, (F3) 1 Bishopsville, (E2) 110 Cow Creek, (F3) 1 Blackman, (B6) 250 Crainlyn, (E7) 1 Bland, (D2) 100 Crawford, (E1) 1 Blitchton, (D2) 200 Crawford, (E1) 1 Blitchton, (D2) 200 Crawford, (E1) 1 Blitchton, (D2) 200 Crescent City, (E2) 8 Bluffsprings, (A6) 700 Crestview, (B6) 1 Boardman, (D2) 150 Crewsville, (E4) 1 Bocagrande, (D5) 325 Croom, (D3) 3 Bonita Springs, (E5) 200 Crystal River, (D3) 9 Bostwick, (E2) 100 Cutler, (F6) 1 Boulogue, (E1) 100 Cypress, (A1) 2 Bowling Green, (E4) 670 Dade City, (D3) 19 Boyett, (D4) 100 Daisy, (E2) 1	0 Flemington, (D2) 200 0 Florahome, (E2) 150 0 Floral Bluff, (E1) 100 0 Floral City, (D3) 48 9 Fogartyville, (D4) 250 0 Forest City, (E3) 130 0 Fort Dade, (D4) 100 0 Fort De Soto, (D4) 150 0 Fort George, (E1) 100 0 Fort Green, (E4) 100 0 FL Lauderdale, (F5) 80 9 Fort McCoy, (E2) 150	Homossasa, (D3) 150 Hosford, (B1) 370 Hudson, (D3) 210	Lulu, (D1)	Nocatee, (E4)	Sagano, (D3) 150 Saint Andrew, (A1) 1,400 St. Augustine, (E2) 5,471	Welska (F2) 350
Bonifay, (A1)1,107 Cross Bayou, (D4). 1 Bonita Springs, (E5) 200 Crystal River, (D3) 9 Bostwick, (E2) 100 Cutler, (F6) 1	0 Fort George, (E1) 100 0 Fort Green, (E4) 100 0 Ft. Lauderdale, (F5) 800	Hudson, (D3) 210 Hull, (E4) 170 Huntington, (E2) 100 Hurds, (E2) 130 lamonia, (B1) 190	McAlpin, (D1) 100 McDavid, (A6) 100 McIntosh, (D2) 206	Olustee, (D1)300 Orangebend, (E3)75 Orange City, (E3)506 Orange Heights,	Saint Andrew, (A1) 1,400 St. Augustine, (E2) 5,471 St. Catherine, (D3). 100 Saint Cloud, (E3) 2,080 St. Johns Park, (E2) 200 Saint Joseph, (D3) 150 Saint Leo, (D3) 100 Saint Nicholas, (E1) 350 Saint Nicholas, (E1) 350 St. Petershurg (D4) 7, 186	Welcome, (D4) 100 Wellborn, (D1) 341 West Bay, (C7) 100
Boulogae, (E1) 100 Cypress, (A1) 2 Bowling Green, (E4) 670 Dade City, (D3) 1,9 Boyett, (D4) 100 Daisy, (E2) 1,1 Boynton, (F5) 200 Dailas, (D3) 2	9 Fort McCoy, (E2). 150 0 Fort Meade, (E4)2,150 0 Fort Myers, (E5)3,244	lamonia, (B1) 190 Inglis, (D2) 300 Interlachen, (E2) 350	McRae, (E2) 100 Macclenny, (D1) 368 Madison, (C1)1,763	Orange Heights, (D2)	Saint Joseph, (D3). 150 Saint Leo, (D3) 100 Saint Marks, (B1) . 200	Westlake, (C1) 200 W. Palm Beach, (F5)4,090 West Tampa, (D4) 7,837
Boynton, (F5) 200 Dallas, (D3) 2 Bradentown, (D4) .3,305 Dania, (F5) 5 Bradley, (E4) 295 Davenport, (E3) 1	 Fort Ogden, (E4) 420 Fort Pierce, (F4)1,942 Fort White, (D2) 329 	Inverness, (D3) 350 Inwood, (B1) 100 Islamorada, (F7) 150	Maitland, (E3) 145 Malone, (A1) 633 Manatee, (D4)1,487	Orange Fieignts, (D2)	Saint Nicholas, (E1) 350 St. Petersburg, (D4) 7,186 Sampson, (D2) 100 San Antoolo, (D3) . 131	Westville, (C6) 650 Wewahitchka, (A1) 250 White City, (F4) 350
Bradentown, (D4) .3,305 Dania, (F5)	0 Fountain, (A1) 100 6 Francis, (E2) 250 2 Freeman, (D3) 100	Island Grove, (D2). 170 Istachatta, (D3) 230 Jacksonville, (E1) 66,850	Manavista, (D4) 60 Mandarin, (E1) 550 Marathon, (F7) 200	Ormond, (E2) 857 Osteen, (E3) 300 Ottercreek, (D2) 100	San Antooio, (D3). 131 Sanborn, (B1). 150 Sanderson, (D1). 150 Sanford, (E3). 4,998 Sanibel, (D5). 100	White Springs, (D1) 900 Whitfield, (B7) 250 Wildwood, (D3) 385
Bronson, (D2). 800 Deerfield, (F5). 3 Brooker, (D2). 250 De Funiak Springs, Brownville, (E4). 250 De Land, (E2). 3,4 Bryceville, (D1). 100 Deleon Springs, (E2) 3	 Freeport, (C7) 600 Frostproof, (E4) 100 Fruitland Park, (D3) 150 	Janney, (D2) 100 Jasper, (D1)1,631 Jennings, (C1) 682	Marco, (E5) 100 Margaretta, (D1) 50 Marianna, (A1)2,357		Sanford, (E3)4,998 Sanibel, (D5) 100 San Mateo, (E2) 327	Willeford, (D2) 100 Williston, (D2) 800 Wilmarth, (C1) 70
Bowling Green, (E4) 670 Dade City, (D3). 1,9 Boyett, (D4). 100 Daisy, (E2). 1 Boynton, (F5). 200 Dallas, (D3). 2 Bradentown, (D4). 3,305 Dania, (F5). 5 Bradley, (E4). 295 Davenport, (E3). 1 Brandon, (D4). 100 Day, (C1). 2 Branford, (D2). 411 Daytona, (E2). 4,5 Bristol, (B1). 800 Daytona Beach, (F2) S Brooker, (D2). 250 Deerfield, (F5). 3 Brooker, (D2). 250 Deerfield, (F5). 3 Brownville, (E4). 250 De Land, (E2). 3,4 Bryceville, (D1). 100 Delcon Springs, (E3) Buckingham, (E5). 170 Dellwood, (A1). 1 Buena Vista, (F6). 100 Delray, (F5). 8 Bunnell, (E2). 228 Delta, (A6). 1	0 Fulton, (E1) 180 4 Gainesville, (D2)6,736 0 Gardner, (E4) 100	Jensen, (F4) 200 Johnstown, (D1) 90 Jonesville, (D2) 230	Martel, (D2) 160 Mascotte, (E3) 100 Mayo, (CI) 719	Paisley, (E3) 80	Santa Rosa, (B7). 200 Sarasota, (D4). 1,682 Seabreeze, (F2). 443 Sebastian, (F4). 220	Welcome, (D4) 100 Wellborn, (D1) 341 West Bay, (C7) 100 Westlake, (C1) 200 W. Palm Beach, (F5)4,090 West Tampa, (D4) 7,837 Westville, (C6) 650 Wewahitchka, (A1) 250 White City, (F4) 350 White Springs, (D1) 900 Whitfield, (B7) 250 Wildwood, (D3) 385 Willcford, (D2) 800 Wilmarth, (C1) 70 Windsor, (D2) 800 Windsor, (D2) 300 Winter Garden, (E3) 648 Winter Park, (E3) 1,226 Winter Park, (E3) 787
Bryceville, (D1). 100 Deleon Springs, (E2) 58 Buckingham, (E5). 170 Dellwood, (A1). 1 Buena Vista, (F6). 100 Delray, (F5). 8 Bunnell, (E2). 228 Delta, (A6). 1 Burbank, (D2). 250 Denaud, (E5). 1 Bushnell, (D3). 343 De Von, (D2). 1 Byrd, (E2). 200 Deater, (E2). 1 Callahan, (E1). 440 Doublesink, (D2). 1 Callahan, (E1). 440 Doublesink, (E1). 440 Doublesink, (E1). 440 Doublesink, (E1). 440 Doublesink, (E1). 440 Doublesink, (E1). 440 Doublesink, (E1). 440 Doublesink, (E1). 440 Doublesink	9 Garniers, (B7) 150 0 Garrett, (D3) 100 0 Gary, (D4) 350	lamonia, (B1) 190 Inglis, (D2) 300 Inglis, (D2) 300 Interlachen, (E2) 350 Inverness, (D3) 350 Inverness, (D3) 350 Inverness, (D3) 350 Invend, (B1) 100 Islamorada, (F7) 150 Island Grove, (D2) 170 Istachatta, (D3) 230 Jacksonville, (E1) 66,850 Janney, (D2) 100 Jasper, (D1) 1,631 Jennings, (C1) 682 Jensen, (F4) 200 Johnstown, (D1) 90 Johnstown, (D1) 90 Johnstown, (D1) 160 Juliette, (D2) 160 Juliette, (D2) 110 Kathleen, (D3) 361 Kendrick, (D2) 100 Kent, (E1) 100	Longwood, (E.3). 200 Loretto, (E1). 100 Loretto, (E1). 100 Loretto, (E1). 100 Loughman, (E3). 100 Loughman, (E3). 100 Loughman, (E3). 100 Lukens, (C2). 200 Lulu, (D1). 250 Lumberton, (D3). 200 Luraville, (C1). 100 McAlpin, (D1). 100 McApaid, (A6). 100 McIntosh, (D2). 206 McRae, (E2). 100 Macclenuy, (D1). 368 Madison, (C1). 1,763 Mailland, (E3). 145 Malone, (A1). 633 Manatee, (D4). 460 Mandarin, (E1). 550 Marathon, (F7). 200 Marco, (E5). 100 Margaretta, (D1). 550 Marathon, (F7). 200 Marco, (E5). 100 Margaretta, (D1). 500 Margaretta, (D1). 500 Margaretta, (D2). 160 Mascotte, (E3). 100 Mayon, (C1). 719 Mayport, (E1). 500 Maylown, (F3). 100 Melbourne, (F3). 408 Melrose, (D2). 191 Meredith, (D2). 191 Meredith, (D2). 191 Meredith, (D2). 191 Meredith, (D2). 191 Meredith, (D2). 191	(E2)	Sebastian, (F4) 220 Sebring, (E4) 398 Seffner, (D3) 300	Winter Park, (E3) 787 Wiscon, (D3) 100 Woodville, (B1) 180 Yalaha, (E3) 100
Bushnell, (D3)	0 Genoa, (D1)	Kendrick, (D2)	Merose, (D2)	Palmetto, (D4)1,625 Panama City, (E1).2,013 Panama Park, (E1) 100	Sebastian, (F4) 220 Sebring, (E4) 398 Sefiner, (D3) 300 Seville, (E2) 200 Shady Grove, (C1) 100 Silver Spring, (E2) 100 Smithcreek, (B1) 571 Socrum, (E3) 160	Yalaha, (E3) 100 Youkon, (E1) 150 Yulee, (E1) 250
Busineli, (15). 343 De voii, (12). 1 Byrd, (E2). 200 Dexter, (E2). 1 Callahan, (E1). 440 Doublesink, (D2). 1 Calvary, (D2). 90 Dover, (D3). 1 Campbell, (E3). 100 Dowling Park, (D1) 2 Campbellton, (A1). 333 Drayton Island, Campville, (D2). 260 (E2). 1		(D3)	Melrose, (P3). 408 Melrose, (D2). 191 Meredith, (D2). 300 Miakka, (D4). 100 Miami, (F6). 15,592 Micanopy, (D2). 617 Miccosukee, (B1). 130 Middleburg, (E1). 340	Palmetto, (D4)	Smeads, (B1)	Yaulana, (E3) 100 Youkon, (E1) 150 Yulee, (E1) 250 Zellwood, (E3) 100 Zephyrhills, (D3). 1,450 Zolfo, (E4) 350 Zuber, (D2) 100
		GEOR				
Abba, (F7) 100 Austell, (C3) 75	Boston, (E9)1,130	Capel, (D9) 100	Cochran, (F6)1,638	Danielsville, (F2) 323	Edison, (C7) 841	Flint, (D8) 100

Acree, (E7)	
Appling, (H3) 200 Bethlehem, (E3) 209 Burroughs, (K7) 100 Chickamauga, (B1) 312 Crandall, (C1) 220 Douglas, (G7)3,550 Everett City, (J8) Aragon, (B2) 800 Beverly, (G2) 14 Burwell, (B3) 150 China Hill, (F7) 180 Crawford, (F3) 871 Douglasville, (C3) 1,462 Ewing, (G9) Aragon, (B2) 800 Beverly, (G2) 14 Burwell, (B3) 150 Chipley, (C5) 742 Crawfordville, (G3) 688 Dover, (J5) 150 Experiment, (D4) Aragon, (B2) 800 Beverly, (G2) 14 Burwell, (B3) 150 Chipley, (C5) 742 Crawfordville, (G3) 688 Dover, (J5) 150 Experiment, (D4) Aragon, (B2) 80 Beverly, (G2) 14 Burwell, (B3) 150 Chipley, (C5) 742 Crawfordville, (G3) 688 Dover, (J5) 150 Experiment, (D4) Aragon, (B2) 80 Bib City, (B3) 403 Bushnell, (F7) 173 Chula, (E7) 130 Creighton, (D2) 300 Draketown, (B3) 200 Fairchurn, (C3) Arlington, (C8) 1,308 Big Creek, (D2) 200 Butter, (D5) 100 Clarkesville, (F1) 528 Crosland, (E8) 198 Dublin, (G5) 5,795 Faircloth, (D8) Armuchee, (B2) 200 Bishop, (F3) 268 Byron, (E5) 400 Clarkston, (D3) 349 Culloden, (D5) 365 Dudley, (F5) 200 Fairchurn, (C2) Asburn, (E7) 2,214 Blackshear, (H8) 1,235 Cadwell, (G6) 154 Clayton, (F1) 541 Cumming, (D2) 305 Dunwoody, (D3) 125 Fargo, (G9) Atkinson, (J8) 200 Blarville, (E1) 203 Cairo, (D9) 1,505 Clelmad, (F8) 100 Cusseta, (C6) 341 Du Pont, (G9) 342 Durand, (C5) 100 Farmington, (F3) 404 Atkinson, (J8) 200 Blanton, (F9) 100 Calvary, (D9) 250 Cleveland, (E1) 200 Cyrene, (C9) 150 East Ellipy, (D1) 291 Fayetteville, (C4) AtlaNTA, Bloomingdale, (K6) 100 Camak, (G3) 241 Clirton, (K7) 100 Dacula, (E3) 169 East Lake, (D3) 73 Felton, (B3) (D3) 154,839 Blue Ridge, (D1) 898 Camilla, (D8) 1827 Climax, (D9) 328 Daffin, (J5) 109 Eastman, (F6) 2,355 Ficklin, (G3) 161,830 161,830 161,830 161,8	C8) 1,308 Bingen, (C9) 200 Butts, (HS) 100 Clarkesville, (F1) 528 Crosland, (E8) 198 Dublin, (G5) 5,795 Faircloth, (D8) 225 Glovers, (E4) 157 (P1) 162 Birmingham, (D2) 100 Byromville, (E6) 300 Clarkston, (D3) 349 Culloden, (D5) 365 Dudley, (F5) 200 Fairfax, (G8) 100 Godfrey, (E4) 337 (B2) 200 Bishop, (F3) 268 Byron, (E5) 400 Claxton, (J6) 1,008 Culverton, (G4) 340 Duluth, (D3) 469 Fair Mount, (C2) 326 Good Hope, (E3) 157 (Cayton, (F1) 541 Cumming, (D2) 305 Dunwoody, (D3) 125 Fargo, (G9) 300 Gordon, (F5) 100 Custed, (G6) 14,013 Blakely, (C8) 1,838 Calboun, (C2) 1,652 Clem, (B3) 100 Custed, (C6) 341 Du Pont, (G9) 342 Farmdale, (C4) 100 Godfrey, (E4) 100 Godfrey, (

3	348	(GEORGIA-IDAHO-ILLINOI	is) INDI	EX OF THE	UNITED	STATES		
GGGGGHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	reenville, (C4). reshamville, (C3). riswoldville, (F5). riswoldville, (F5). riswoldville, (F5). riswoldville, (F5). rovania, (E6). rovetand, (J6). rovetown, (H4). rovetown, (H5). rovetown, (H5). rovetown, (H6). rovetown, (7.478 Jefferson, (E2) . 1,207 100 Jeffersonnille, (FS) . 740 61 Jenkinsburg, (D4) . 237 350 Jerome, (J6) . 200 558 Jersey, (E3)	Jyerly, (B2)	Odessadale, (C4) 161 Odum, (H7) 258 Offerman, (H8) 483 Ogeechee, (J5) 130 Oglethorpe, (D6) 924 Ohoopee, (H6) 101 Ola, (D4) 150 Oliver, (J5) 243 Olympia, (F9) 200 Omaha, (C6) 209 Omega, (E8) 274 Orange, (D2) 100 Orchard Hill, (D4) 100 Orland, (G6) 457 Orsman, (B2) 100 Osierfield, (F7) 300 Ousley, (F9) 100 Owens Ferry, (J9) 200 Owens Ferry, (J9) 200	Patters, (E9). Patterson, (H8). Pavo, (E9). Patterson, (G8). Pelson, (G2). Pearson, (G8). Pelham, (B8). Pelham, (B8). Pelham, (B8). Pembroke, (J6). Pendergrass, (E2). Penfield, (F3). Penin, (E7). Penfield, (F3). Penin, (E7). Penfield, (F3). Perry, (E6). Pertyville, (H8). Pfeiffer, (K5). Phinizy, (H3). Pidcock, (E9). Pinebloom, (G8). Pinebloom, (G8). Pine Grove, (G7). Pinehurst, (E6). Pinepark, (D9). Pineview, (E6). Pitts, (E7). Plains, (D6). Plainville, (C2). Pleasant Hill, (D5). Point Peter, (F3). Pooler, (K6). Popes Ferry, (E5). Poplar, (D5). Portal, (J5). Porterdale, (E3). Porterdale, (E3). Porterdale, (E3). Porterdale, (E5). Preston, (C6). Rayle, (G3). Raleigh, (C5). Ranger, (C1). Rayle, (G3). Red Oak, (D3). Red Oak, (D3). Red Oak, (D3). Red Oak, (D3). Resource, (K5). Rex, (D3). Resource, (K5). Reynolds, (B6). Resource, (K6). Rickevold, (B6). Resource, (K6). Rickevold, (B6). Resource, (K6). Riggold, (B1). Rising Fawn, (B1). Rising Fawn, (B1). Rising Fawn, (B1).	360 Rochelle, (F7) 860 320 Rockingham, (H7) 100 264 Rockledge, (G6) 152 572 Rockmart, (B2) 1,034 100 Rocky Ford, (J5) 385 558 Rocky Mount, (C4) 61 1,880 Rogers, (H5) 300 467 Rolston, (D1) 100 467 Rolston, (D1) 100 467 Rolston, (D1) 100 467 Rolston, (D1) 1,00 467 Rosewood, (H7) 100 468 Rosewood, (H7) 100 469 Round Oak, (E4) 100 469 Round Oak, (E4) 100 469 Round Oak, (E4) 100 460 Roy, (D1) 1,422 460 Rosewood, (H7) 100 461 Rosewood, (H7) 100 462 Rosewood, (H7) 100 463 Rosewood, (H7) 100 464 Rosewille, (G2) 1,422 465 Rosewood, (H7) 100 467 Round Oak, (E4) 100 468 Round Oak, (E4) 100 469 Round Oak, (E4) 100 469 Round Oak, (E4) 100 460 Royston, (F2) 1,422 460 Ruckersville, (G2) 88 4310 Rural Vale, (C1) 100 461 Rutledge, (E3) 696 430 Saint Charles, (C4) 91 461 Rutledge, (E3) 696 4630 Saint Charles, (C4) 91 462 Saint Marks, (C4) 54 463 Saint Marks, (C4) 54 464 Saint Marys, (J9) 691 465 Sale City, (D8) 402 467 Sandersville, (G5) 2,641 468 Saint Marys, (J9) 691 469 Sagert, (C4) 200 460 Sasser, (D7) 441 461 Saint Marys, (J9) 300 467 Sagent, (C4) 200 462 Scarboro, (J5) 200 463 Sasser, (D7) 441 461 Saint Balliff, (J9) 300 467 Seabrook, (K7) 100 467 Seabrook, (K7) 100 468 Seabrook, (K7) 100 469 Seabrook, (K7) 100 469 Seabrook, (K7) 100 469 Seabrook, (K7) 100 460 Seatinger, (E4) 111 461 Sessoms, (G8) 102 462 Scarbook, (K7) 100 463 Sharpe, (B1) 100 464 Sharpe, (B1) 100 465 Sharpe, (B1) 100 466 Sharpe, (B1) 100 467 Seabrook, (K7) 100 468 Sharpe, (B1) 100 469 Sharpe, (B1) 100 460 Sharpe, (B1) 100 461 Shaw, (B1) 100 462 Scartin, (B1) 100 463 Sharpe, (B1) 100 464 Smiley, (J7) 100 465 Sharpe, (B1) 100 466 Sharpe, (B1) 100 467 Secoliton, (G6) 150 468 Sharpe, (B1) 100 469 Sharpe, (B1) 100 460 Sharpe, (B1) 100 461 Shaw, (B1) 100 462 Scarbook, (B1) 100 463 Sharpe, (B1) 100 464 Sharpe, (B1) 100 465 Sharpe, (B1	Stevens Pottery, (F5) 200 Stilesboro, (C2) 200 Stillesboro, (C2) 200 Stillesboro, (C6) 645 Stilluwell, (K6) 100 Stillson, (J6) 150 Stockbridge, (D3) 500 Stockbon, (G9) 200 Stockbon, (G9) 200 Stockbon, (G9) 200 Stockbon, (G1) 170 Sugar Valley, (B1) 197 Summerville, (B2) 657 Summerville, (B2) 657 Summerville, (B2) 657 Summerville, (B4) 4,361 Summit, (H5) 566 Summer, (E7) 336 Sumter, (D7) 110 Sunnyside, (D4) 200 Surrency, (H7) 259 Swansboro, (H5) 1,313 Swords, (F3) 107 Syamore, (E7) 1,407 Syamore, (E7) 1,407 Syamore, (E7) 1,407 Talbotton, (C5) 1,081 Talking Rock, (D1) 17 Tallulah Falls, (F1) 85 Tarrytown, (G6) 236 Tarver, (G9) 150 Tarytown, (G1) 236 Tarver, (G9) 150 Taryown, (E8) 103 Temple, (B3) 711 Tempy, (E8) 100 Tengpa, (C1) 145 Tennille, (G5) 1,622 Texas, (B4) 150	Vinings, (D3)
Alha Alha Alha Alha Alha Alha Alha Arka Arka Arka Alha Alha Baca Basa Basa Basa Basa Basa Basa Bas	sahka, (B3) ion, (E7) c, (E7) ha, (C5) ha, (C5) mon, (G6) on, (F7) her, (G6) o, (E6) sian City, (D7). ton, (G5) ol, (B2) uta, (C6) ota, (B3) iger, (G6) trolt, (G7) alt, (F6) in, (E7) es, (G6) horse, (D5) levue, (D6) inington, (G7) n, (G7) sian City, (D7) in, (E7) es, (G6) horse, (D5) levue, (B6) in, (G7) an, (F6) lamers Ferry, (B1) dge, (E7) an, (F6) lage, (E7) an, (F6) lage, (E7) an, (F6) lage, (E7) hick, (C6) he, (G6) dwell, (B6) horlidge, (B5) meron, (B3)	100 Cataldo, (B2). 100 214 Centerville, (C6). 130 214 Centerville, (C6). 130 150 Central, (G7). 100 250 Challis, (D5). 338 322 Chapin, (G6). 130 00 Cherrycreek, (F7). 100 502 Chester, (G6). 250 281 Chesterfield, (G7). 330 300 Chilly, (E5). 110 100 Clarkfork, (B1). 100 100 Clarkfork, (B1). 100 200 Clearwater, (C3). 100 201 Clarwater, (C3). 100 202 Cleveland, (G7). 150 150 Coeur d'Alene, (B2). 7,291 100 Colburn, (B1). 100 150 Conant, (E7). 100 202 Concord, (C4). 100 700 Cottonwood, (B4). 555 7,358 Confort, (B5). 312 1,071 Crawford, (C5). 100 200 Culdesac, (B3). 436 100 Cuprum, (B4). 100 100 Custer, (D5). 200 300 Delamar, (B6). 500 300 Delamar, (B6). 500 300 Delamar, (B6). 500 31543 Driggs, (G6). 250 31543 Driggs, (G6). 250 3149 Dubois, (F5). 200	Farnum, (G6). 200 Featherville, (C6). 100 Ferdinand, (B3). 140 Ferdinand, (B3). 140 Friler, (D7). 214 Firth, (F6). 100 Fishhaven, (G7). 100 Fishhaven, (G7). 100 Fernklin, (G7). 534 Fruitland, (B5). 100 Garden Valley, (B5) 150 Gem, (C2). 375 Genesee, (A3). 742 Geneva, (H7). 170 Gentile Valley, (F7) 200 Georgetown, (G7). 410 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 500 Gibbonsville, (E4). 150 Gibbonsville, (E4). 150 Gibbonsville, (E4). 150 Gilmore, (E5). 100 Gilmore, (E5). 100 Geoding, (D6). 1,444 Grangeyille, (C4). 1,534 Granite, (E6). 200	Harvard, (B3)	Liherty, (G7). Lincoln, (G6). Lookout, (B3). Lorenzo, (F6). Lost River, (E6). Lund, (G7). Lund, (G7). Lyman, (G6). McArthur, (B1). McCammon, (F7). Mackay, (E6). Malad City, (F7). Manard, (D6). Marion, (E7). Maye, (E8). May, (E8). May, (E8). Meadows, (B4). Menan, (F6). Meridian, (B6). Midvale, (B5). Milner, (E7). Mindoka, (E7). Mindoka, (E7). Minkcreek, (G7). Mohler, (B3). Montpelier, (G7). Moore, (E6).	346 Neeley, (F7)	Rockybar, (C6) 200 Roosevelt, (C5) 110 Roseherry, (C5) 120 Roseworth, (D7) 100 Rossfork, (F6) 1,400 Rudy, (G6) 200 Rupert, (E7) 297	Squirrel, (G6)
Ad Ak Ali Ali Alo Alo	dison, (H2)	2,464 Altamont, (G7), 1,328 300 Alton, (D8), 17,528 250 Altona, (D3), 528 269 Alto Pass, (F10), 551 579 Alvin, (J5), 319 155 Amboy, (F2), 1,749 200 Ambrose, (C5), 100 618 Anchor, (G4), 250 1,281 Ancona, (G3), 150 200 Andalusia, (C3), 299 2,144 Andover, (D3), 222 2104 Angr. (F11), 280	Arlington, (F3) 370 Arlington Heights, (H1) 1,943 Armington, (F5). 327 Armstrong, (J5). 300 Arrowsmith, (G5). 366 Arthur, (H6) 1,080 Ashkum, (H4) 416 Ashland, (D6) 1,096 Ashley, (F9) 913 Ashton, (F9) 913 Ashton, (F2) 779	Augusta, (C5) 1,146 Aurora, (H2)	Bartlett, (H1) Bartonville, (E4) Basco, (B5) Batavia, (H2) Batchtown, (C7) Baylis, (C6) Baylis, (C6) Beardstown, (D5) Beavertreek, (F8). Beaverville, (J4)	408 Bellewood, (J2)	Big Rock, (G2) 250 Bingbam, (F7) 191 Birds, (J8) 382 Birkner, (D8) 400 Eisbop Hill, (D3) 289 Bismarck, (J5) 200 Blackstone, (G3) 250 Blar, (E9) 100 Blandinsville, (C4) 987 Bloomfield, (G11) 100 Bloomingdale, (H2) 462 Bloomingdale, (H2) 462 Bloomingdale, (H2) 462 Bloomington, (F5) 25,768 Blue Island, (J2) 8,043 Blue Mound, (F6) 766 Bluffs, (C6) 766 Bluffsrings, (F.) 220 Bluford, (G9) 150 Bolton, (G10) 485 Bondville, (H5) 250 Bone Gap, (H9) 517 Bonfield, (H3) 162	Boody, (F6)

Roberts, (H4)	(D5). 150 Sprin Sheridan, (G2). 506 Sprin Sheridan, (G2). 506 Sprin Sherman, (E6). 150 Sprin Sherman, (E6). 150 Sprin Shermary, (E6). 150 Sprin Shermary, (D1). 441 Stand Shertard, (D3). 906 Stanf Shetlerville, (H11). 250 Stauf Shidland, (F1). 100 Stege Shipman, (D7). 392 Steel Shipman, (D7). 392 Steel Shirland, (F1). 100 Stege Shirland, (F1). 100 Stege Shirland, (F1). 100 Stege Shirland, (F1). 100 Steel Shobonier, (F8). 306 Stewn Shomway, (G7). 291 Stewn Sidell, (J6). 741 Stillus Sidel, (J6). 741 Stillus Sidel, (J6). 741 Stillus Sidel, (G7). 308 Stock Sidels, (B3). 1.163 Stock Sidels, (B3). 1.163 Stock Simpson, (G11). 161 Stock Simpson, (G11). 161 Stock Simpson, (G11). 389 Stock Simpson, (G11). 389 Stock Simpson, (G11). 389 Stock Simpson, (G11). 389 Stock Simpson, (G2). 399 Stock Simpson, (G2). 399 Stock Simpson, (G3). 300 Stock Simpson, (G3). 300 Stock Simpson, (G3). 300 Stock Simpson, (G3). 300 Stock Simpson, (G3). 300 Stock Simpson, (G3). 300 Stock Simpson, (G4). 389 Stock South Elgin, (H1). 580 Summ South Elgin, (H1). 580 Summ South Holland, (J2) 1,065 Summ South Holland, (J2) 1,065 Summ South Holland, (J2) 1,065 Summ Sparta, (E9). 3,081 Sweed Spaer, (E3). 100 Sycan Sparland, (F3). 461 Swan Sparta, (E9). 3,081 Sweed Spaer, (E3). 100 Sycan Sparland, (F3). 100 Sycan Spa	burg, (G/)	Taylor Sprs, (F7). 380 Taylorville, (F6). 5,446 Techny, (J1)	Villardge, (F11). 700 Viola, (C3). 760 Virden, (E7). 4,000 Virden, (E7). 4,000 Virginia, (D6). 1,501 Volo, (H1). 180 Wadsworth, (J1). 150 Waggoner, (E7). 270 Waldron, (J3). 261 Walnut, (E2). 763 Walnut, (E2). 763 Walnut Hill, (F8). 160 Walpole, (G10). 130 Walshville, (E7). 169 Waltonville, (F9). 250 Wanlock, (C3). 150 Wapella, (G5). 498 Warren, (E1). 1,331 Warrensburg, (F6). 504 Warrenville, (H7). 100 Warrenw (RS). 256	Webster, (B5) 100 Wedron, (G3) 200 Wedron, (G3) 200 Weldon, (G5) 521 Wellington, (J4) 300 Wesona, (F3) 1,442 West Brooklyn, (F2) 26,6 West Chicago, (H2) 2,378 West Dundee, (H1) 1,380 Western Springs, (J2) 905 Westervelt, (G7) 180 Westfield, (J7) 927 West Frankfort, (G10) 2,111 West Hammond, (J2) 4,948 West Jersey, (E3) 100 West Liberty, (H8) 220 West Salem, (H8) 250 West Salem, (H8) 725 West Union, (J7) 400 West Vork, (J7) 300 West West York, (J7) 300 West West Point, (H8) 218 Wethersfield, (E3) 1,593 Wheaton, (H2) 3,423 Wheeler, (H7) 255 Wheeling, (J1) 260 White City, (E7) 421 White Hall, (D7) 2,854 White Heath, (H5) 200 Whiterok, (F1) 100	Williamsfield, (D4) 480 Williamson, (E8) . 648 Williamson, (E8) . 648 Williamson, (E8) . 600 Willisville, (E10) . 1,082 Willow Hill, (J8) . 444 Willow Springs, (J2) 150 Willow Hill, (J8) . 444 Willow Springs, (J2) 150 Willmington, (H3) . 1,450 Wilmington, (H3) . 1,450 Windester, (D6) . 1,639 Windsor, (G7) . 987 Winfield, (H2) . 150 Wing, (H4) . 120 Winnetka, (J1) . 3,168 Winslow, (E1) . 426 Winnetka, (J1) . 3,168 Winslow, (E1) . 426 Winnetha, (J1) . 3,168 Winslow, (E1) . 426 Winthorp Harbor, (J1)
Abington, (F9)	Cartersburg, (D9). 300 Crist Carthage, (E9). 873 Croc Cass, (B11) 300 Cron Cassville, (D5) 100 Cros Castleton, (D8) 194 Crot Catlin, (B9) 200 Crov Cayuga, (B8) 911 Crut Cedar Grove. (G10) 300 Cub Cedar Lake, (B2) 400 Culv Cedarville, (F3) 120 Cum Center, (C14) 300 Cur Center, (C14) 300 Cur Center, (D6) 300 Cur Center, (D6) 300 Cur Center, (D6) 300 Cur Center, (D6) 300 Cur Center (D6) 300 Cur Center (D6) 300 Cur Center (D6) 300 Cur Center Valley, (C9) 100 Dale Callamers, (C5) 100 Dale Chalmers, (C5) 100 Dale Charlestown, (E14) 864 Day Charlestown, (E14) 864 Day Charlestown, (E14) 864 Day Chester, (G8) 140 Deca Chesterield, (E7) 255 Deck Chesterton, (B1) 1400 Dece Chili, (D4) 250 China, (F12) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 250 Dela Chrisney, (B15) 243 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 453 Deno Clarksburg, (F10) 250 Deno Clarksburg, (F10) 250 Deno Clarksburg, (F14) 380 Dick Claybon, (C9) 497 Dilla Claybon, (C9) 497 Dilla Claybon, (C9) 497 Dilla Claybon, (C9) 497 Dilla Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 Diar Claybon, (E3) 408 D	Ington, (C1), 780 is, (C2). 150 ton, (C6). 700 ville, (B16). 150 stur, (G4). 4,471 ster, (B13). 800 strille, (D4). 130 disville, (B1). 300 distrille, (B1). 300 distrille, (B1). 300 distrille, (B3). 300 distrille, (B3). 250 distrille, (B3). 250 distrille, (B3). 250 distrille, (B3). 250 distrille, (B3). 250 distrille, (B3). 250 distrille, (B3). 250 distrille, (B1). 250 distrille, (B1). 250 dover, (D4). 300 duty, (E12). 250 dy, (C15). 180 mond, (B9). 1,070 dev, (C15). 180 mond, (B9). 1,070 dev, (C11). 100 distrille, (C11). 200 erthill, (C13). 300 distrille, (C12). 100 distrille, (C13). 300 dee, (C12). 100 distrille, (C14). 100 dee, (E6). 200 dee, (E6). 200 dee, (E6). 303 distrille, (E1). 150 distrille, (E1). 150 distrille, (E1). 150 distrille, (E1). 150 distrille, (E1). 150 distrille, (E1). 150 distrille, (E1). 150 distrille, (E1). 300 detown, (D7). 300 Park, (B5). 609 Connersville, 99, (A2). 500 detown, (B1) 19,98 Connersville, 99, (F6). 1,423 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1). 130 distrille, (E1).	Fairland, (E9)	Graysville, (A11) 100 Greencastle, (C9) 3,790 Greencale, (G11) 697 Greence, (G6) 100 Greenfield, (E8) 4,448 Greenhill, (B6) 170 Greensboro, (F8) 250 Greens Fork, (F8) 250 Greens Fork, (F8) 400 Greenswood, (D9) 1,603 Greenswood, (D9) 1,603 Greenswood, (D9) 1,603 Greinswood, (D9) 1,603 Greinswood, (D9) 275 Griffith, (B2) 523 Groveland, (C8) 275 Griffith, (B2) 523 Groveland, (C8) 200 Gwynneville, (E9) 200 Gwynneville, (E9) 200 Gwynneville, (E9) 200 Gwynneville, (E9) 200 Hagerstown, (F8) 936 Hall, (C9) 200 Hamilton, (G1) 800 Hamilton, (G1) 800 Hamlet, (C2) 579 Hammond, (A1) 20,925 Hanfield, (E5) 150 Hannan, (C2) 500 Harmove, (F13) 356 Hardinsburg, (D14) 250 Hartford (Git) 150 Hartford, (Git) 150 Hartford, (Git) 150 Hartford, (Git) 150 Hartford, (G1) 358 Hartwell, (B14) 300 Hatrided, (B16) 200 Hayden, (E12) 300 Hayden, (E12) 300 Hazelwood, (C9) 150 Helmer, (F1) 150 Helmer, (F1) 150 Helmock, (D6) 300 Henryville, (E13) 400 Herbst, (E5) 250 Helsbard, (B1) 400 Herbst, (E5) 250 Hillsbard, (B1) 500 Hillsbard, (B1) 500 Hillsbard, (B1) 500 Hillsbard, (B1) 500 Hillsbard, (B1) 500 Hillsboro, (B7) 528 Hillsdale, (B8) 200	Howlands, (D8). 150 Hudson, (F1). 350 Hudson, (F1). 350 Huntertown, (F3). 400 Huntingburg, (C14). 10,272 Huntsville, (E8). 160 Huron, (C13). 197 Hymera, (B11). 1,515 Idaville, (C5). 500 Ijamsville, (E4). 170 Independence, (B6) Indiana Harbor, (B1). 4,850 Indiana Harbor, (B1). 4,850 Indiana Harbor, (B1). 150 Indiana Harbor, (B1). 233,650 Indiana Sprs, (C12). 250 Ingalls, (E8). 322 Ingalis, (E8). 322 Ingalis, (E8). 302 Indiana Sprs, (C12). 300 Ireland, (B14). 280 Irvington, (D9). 1,500 Jackson, (D6). 100 Jackson, (D6). 100 Jackson Hill, (B11) 300 Jalapa, (E5). 150 Jamestown, (C8). 690 Jasonville, (B11). 3,295 Jasper, (C14). 2,196 Jefferson, (C6). 310 Jefferson, (C6). 310 Jefferson, (B1). 150 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B11). 3,295 Jasonville, (B12). 300 Jasonville, (B11). 3,295 Jasonville, (B11). 3,290 Jasonville, (B12). 300 J	Landess, (E5) 200 Lanesville, (D15) 290 Lanesville, (C15) 350 Lapara, (D2) 350 Lapara, (D2) 350 Lapara, (D2) 350 Lapara, (D2) 350 Lapara, (D2) 350 Lapare, (C1) 10,525 Larwill, (E3) 400 Laud, (F3) 320 Laurel, (F9) 320 Laurel, (F9) 320 Laurence, (D8) 400 Lawrenceburg, (G11) 100 Leavenworth, (G15) 690 Leavenworth, (D15) 690 Lebanon, (C7) 5,474 Leesburg, (E2) 401 Lebanon, (C7) 5,474 Leesburg, (E2) 401 Lebanon, (C7) 5,474 Leesburg, (E2) 401 Letesville, (D12) 150 Leisure, (E6) 180 Leiters Ford, (D3) 200 Lena, (B9) 340 Leo, (F3) 300 Leo, (F3) 300 Leo, (F3) 300 Leo, (F3) 300 Letwis, (B10) 230 Lewis, (B10) 230 Lewis, (B10) 230 Lewis, (B10) 230 Lewis, (B10) 230 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 Liberty, (G9) 1,33 L

Max, (C7). 100 Mount Comfort, (E8) 100 Maxinkuckee, (D3) 100 Mount Etna, (E5). 148 Maxville, (C16). 100 Mount Meridian, Maxwell, (E8). 400 (C9). 150 Mays, (F9). 200 Mount Sterling, (F12)186 Maywood, (D9). 130 Mount Summit, (F7) 300 Meeca, (B9). 1,200 Mount Vernon, Mechanicsburg. (A16). 5.563	(C9) 170 Nineveh, (D10) 300 Nineveh, (D10) 300 Noah, (E9) 150 Norblesville, (E7) 5,073 Normal City, (F7) 1,122 Normanda, (D6) 150 Northalad, (D6) 150 Northgrove, (E5) 400 North Judson, (C3) 1,143 North Liberty, (D1) 681 North Liberty, (D1) 681 North Madison, (F13) 900 North Manchester, (E4) 2,428 North Salem, (C8) 569 North Vernon, (E11) 2,915 North Webster, (E2) 400 Norway, (C5) 150 Norwood, (D8) 400 North Juden, (D1) 1,200 North Juden, (D3) 1,200 North Juden, (D3) 1,200 North Juden, (D3) 1,200 Oaklord, (D6) 150 Oakland City, (B4) 2,370 Oaklandon, (E8) 360 Oaktown, (B12) 2,608 Oakville, (F7) 200 Ober, (C3) 200 Ober, (C3) 200 Ockley, (C6) 150 Odell, (B6) 100 Odell, (B6) 100 Oden, (F8) 300 Odin Falls, (E14) 240 Oldenburg, (F10) 956 Oliver, (A15) 100 Omega, (E7) 100 Onward, (D5) 250 Orange, (F9) 200 Orangeville, (C13) 100 Oreans, (D13) 1,367 Orrville, (A14) 1,237 Orrord, (C3) 250 Orange, (F9) 200 Orise, (C13) 250 Oriole, (C15) 150 Orland, (F1) 500 Orleans, (D13) 1,264 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Monnan, (C4)	(E9) 450 Ottseo, (£13). 2. (E9) 450 Otterhein, (B6). 6. (2) 400 Otwell, (B14). 3. (13). 246 Ovid, (E8). 1. (14). 150 Owensville, (A14). 1,2. (15). 341 Oxford, (B5). 1,0. (16). 342 Packerton, (E3). 1. (17). 342 Packerton, (E3). 1. (18). 350 Palmyra, (D14). 2. (19). 350 Palmyra, (D14). 2. (19). 206 Paragon, (C10). 4. (19). 207 Parker, (F7). 8. (10) Parker, (F7). 8. (10) Parker, (F7). 8. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3. (10) Parker, (F7). 3.	50 Raleigh, (F8)	Saudborn, (B12). 445 Saudbord, (A9). 250 Sandusky, (F10). 200 San Pierre, (C3). 400 Santa Fe, (D5). 100 Saratoga, (G7). 410 Sardina, (E11). 180 Scalesville, (B15). 100 Schererville, (B2). 250 Schnellville, (C14). 200 Scipio, (E11). 250 Scircleville, (D6). 250 Scircleville, (D6). 250 Scottand, (C12). 200 Scottsburg, (E13). 1,669 Sedalia, (C6). 400 Seelyville, (B10). 1,188 Scllersburg, (E14). 676 Selma, (F7). 350 Servia, (E44). 300 Seymour, (E12). 6,303	Sullivan, (B11) 4,115 Sulpbur Springs, (F8)	Wagoner, (D4). 100 Wailesboro, (E11). 160 Wakarusa, (D1). 859 Waldron, (E10). 400 Wailecton, (C2). 1,003 Wallace, (IB8). 116 Wallen, (F3). 150 Walnut, (D3). 150 Walton, (D5). 579 Wanatah, (C2). 800 Warren, (F5). 1,189 Warrington, (E3). 4,430 Warsaw, (E3). 4,430 Washington, (B13). 7,854 Waterford, (C1). 150 Waterloo, (F2). 1,167 Waterman, (B8). 200 Watson, (E14). 250 Waveland, (B8). 676 Waverland, (D9). 130 Wawaka, (F2). 400	Worthington, (B111), 3 Yankeetown, (B16), 18 Yeddo, (B7), 20 Yenne, (C13), 15 Yeoman, (C5), 18 Yorkville, (G11), 15 Young America, (D5), 50 Youno, (D11), 10 Yountsville, (B7), 13 Zanesville, (F4), 30 Zenas, (F11), 10 Zionsville, (D8), 84 Zipp, (A15), 10	70000320 0000000000000000000000000000000
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M	onterey, (M2) 260	No. Fork, (O1) 200	Pinckard, (M3) 100 Pinckneyville, (E4). 100	Riley, (L3) 130	Scranton, (O3) 100	Stephensburg, (J3) 130	Virgie, (Q4) 130	Winchester, (N3)7,156
M	onticello, (M5)1,338	No. Middletown,	Pinckneyville, (E4). 100	Rim, (O5) 100	Sebree, (F3)1,500	Stephensport, (H3). 205	Visalia, (N1) 250	Wiogo, (D5) 404
M	oorefield, (O2) 200 oores Creek, (O4). 100	No Pleasureville	Pine Grove, (N2) 130	Pingos Mills (O2) 130	Select (H4) 100	Stepstone, (O2) 150 Stewartsville, (M1) . 200	Viva, (N4) 250	Wisemanlown, (O3) 100
	oores Ferry, (O2). 500	(L2) 235	Pine Knot, (N5) 200	Riverton (O1) 200	Seventy Six. (L5) 150	Stirson (O2) 200	Wand (N3) 210	Wolf (P2) 300
	orehead. (P2) 1,105	Nortonville (C4) 254	Pineville, (()5), 2.101	Road, (P2), 100	Shady Grove, (141., 240)	Stithton (K3) 300	Waddy (12) 254	Wolf Creek (12) 150
M	oreland, (M4) 250	Oakdale, (O3) 100	Pink. (M3)	Robard, (F3) 334	Shannondale, (M2), 200	Stonewall, (M2) 100	Wakefield (L3) 130	Woodbine (N5) 100
M	organfield, (F3)2,725	Oakdale, (K2)2.073	Pittsburg, (N4) 934	Robinston Creek,	Sharongrove, (G5) 300	Stowers, (H5) 120	Wallace, (M2) 130	Woodburn, (H5) 217
M	organtown, (H4) 509	Oakland, (J4) 257 Oakton, (C5) 200	(M2) 100me,	(O4) Creek,	Shawhan (N2) 300	Sturgis, (F3) 1,467 Sulphur, (L1) 255	Wallins Creek, (P5). 150	Woodbury, (H4) 173
M	orrow (M5). 100	Oak View. (O2) 100	Pleasant View, (N5). 500	Rochester, (H4) 437	Shelby City, (M3) 280	Summer Shade, (K 5) 250	Wallsend (O5) 500	Woodville (D4) 250
M	ortons Gap. (G4) 1,266	Oakwood, (O2) 130	Pleasure Ridge Park.	Rockfield, (H5), 230	Shelbyville (1.2) 3.412	Summersville (KA) 370	Walnut Crossa (D2) 174	Worldy (MS) 150
M	ortonsville (M3) 200	Oddville, (N2) 120	(K2) 200	Kockport, (H4) 658	Shepberdsville, (K2) 318	Sweeden, (74) 100	Walton (M1) 650	Worthville, (M1). 326
M	oscow, (C5) 500	Olive Hill, (P2)1,132	Pleasureville, (L2) 522	Rocky Hill Station,	Sherburne, (O2) 254 Shermon (M1)	Switzer, (M2) 380	Warfield, (R3) 100	Wurtland, (Q1) 190
M	oseleyville, (G3) 100	Olympia, (O2) 200	(02)	(14)	Shively (K2) 200	Talcum, (P4) 200 Taylor Mines, (H4). 430	Washington (O1) 433	Xena, (O3) 130
M	t Carmel (O2) 81	Omaba, (O4) 150	Poindexter, (N2) 120	Rolling Fork, (M4), 130	Short Creek, (13) 130	Taylorsport, (M1), 150	Wasioto (O5) 300	Vale (P2) 200
M	t. Eden (1.2) 157	Omer. (P3)	Pollard, (Q2)1,500	Rose IIII, (M3) 100	Shrewsbury, (14), 100	Taylorsville, (L3) 622	Waterford, (L2) 210	Velvington (H3) 400
M	t Olivet (N1) 321	Oppy, (R3),	Poole, (F3) 1/9	Kosewood, (G4) 89	Sidney, (R3) 100	Templer, (N4) 200	Watervaliev (D5). 228	Vocemite (MA) 09
M	t. Pleasant, (P5) 657	Overfork (O4) 100	Poorfork, (Q5) 150 Poplar Grove, (M1). 150	Rosslyn. (O3) 100	Simcoe (O3)	Thealka (O3) 100	Webbyille (O2)	Yost, (G4)
M	i. Siering, (Oz)3,932	O'CHIOLE, (Q1) 100	100.01010, (211). 100			2 meman, (Qu),, 100	(Q2) 200	210и, (ГЗ) 224

LOUISIANA

LOUISIANA
Abber (F) 2,00 Bears, (J) 50 Danklow (in, (16), 400 Grace, (E3), 125 Kingster, (C2) 50 Mass, (F3) 105 Bearts, (F3) 120 Powers, (F3)

MAINE

MARYLAND

Aberdeen, (G2)	0 Dublin, (G2)	Golden Ring, (G.3) 100 Goldsboro, (H4) 201 Gorsuchs Mills, (F2) 100 Govans, (D7) 1,500 Graccham, (E2) 200 Grange, (G.3) 200 Grante, (F.3) 800 Grantsville, (A2) 48 Greensboro, (H5) 609 Guard, (A2) 150 Gnilford, (F4) 500 Habnab, (H8) 200 Haphab, (H8) 200 Haphab, (H8) 200 Hampstead, (F2) 300 Hamilton, (D7) 1,500 Hampstead, (F2) 555 Hancock, (C1) 893 Hanover, (F4) 100 Harford, (G.3) 100 Harmans, (F4) 300 Harmony, (D.3) 150 Harney, (E2) 170 Harrisonville, (F3) 40 Havre de Grace, (G2) 4,212 Hayden, (G4) 150 Hazen, (H2) 100 Hebron, (H7) 750 Henderson, (H4) 150 Henderson, (H4) 150 Henderson, (H5) 209 Hillsdale, (C8) 800 Hill Top, (E7) 100 Holbrock, (F3) 100 Hollands Islands, (G8) 100 Hollands Islands, (G8) 100 Hollywood, (F7) 250 Hoopersville, (F2) 100 Houcksville, (F2) 100 Houcksville, (F2) 100 Hyattstowille, (F2) 100 Hyattstowille, (F3) 98 Hyattsville, (F2) 100 Hyattstville, (F2) 100 Hyattstville, (F3) 98 Hyattsville, (F5) 191 Ilchester, (F4) 330 Indianhead, (E6) 250 Jarnettsville, (F3) 98 Hyattsville, (F3) 98 Hyattsville, (F3) 98 Hyattsville, (F3) 150 Jessups, (F4) 150 Jesterville, (H7) 300 Kensingston, (E4) 689 Keymar, (E2) 200 Kingsville, (G3) 300 Kensingston, (E4) 100	Lewisdalc, (E.3) 100 Lewistown, (E.2) 230 Liberty Grove, (G.2) 130 Liberty Loven, (E.3) 700 Lime Kiln, (E.3) 500 Linden, (E.4) 100 Lindensville, (B.2) 100 Lindensville, (B.2) 100 Lindensville, (B.2) 150 Little Orleans, (C.2) 140 Loch Lynn Heights, (A.3) 216 Lond Lynn Heights, (A.3) 200 Loreley, (G.3) 200 Loreley, (G.3) 200 Loreley, (G.3) 200 Lower Marlboro, (F.6) 180 Luke, (A.3) 500 Lutherville, (F.3) 800 Lynch, (G.3) 150 McDonogh, (F.3) 100 Madison, (G.6) 350 McDonogh, (F.3) 100 Madison, (G.6) 350 Madonna, (F.2) 100 Manchester, (F.2) 233 Manor, (F.2) 100 Mardela Springs, (H.7) 300 Marriont Station, (H.8) 500 Marriottsville, (F.3) 100 Marydel, (H.4) 300 Marydel, (H.4) 300 Marydel, (F.4) 130 Masgansville, (D.2) 200 Mayneld, (F.3) 130 Mangansville, (F.2) 200 Mechanicsville, (F.7) 300 Mechanicsville, (F.7) 300 Mechanicsville, (F.7) 300 Mechanicsville, (F.7) 300 Midlender, (F.2) 125 Middleburg, (E.2) 125 Middleburg, (E.2) 125 Middletown, (B.3) 399 Mitchellville, (F.3) 100 Millington, (H.3) 399 Mitchellville, (F.3) 100 Monorovia, (E.3) 125 Morgan, (E.3) 100 Montovia, (E.3) 125 Morgan, (E.3) 100 Montovia, (E.3) 125 Monter, (E.2) 200 Mountain Lake Park, (A.3) 335 Mount Airy, (E.3) 622 Mount Carmel, (F.2) 100 Mount Rainier, (E.3) 190	Muirkirk, (F4) 150 Myersville, (D2) 280 Nanticoke, (H7) 300 Newark, (J7) 200 Newark, (J7) 200 New London, (E3) 140 New Market, (E3) 320 New Windsor, (E2) 466 Norbeck, (E4) 100 North Branch, (F3) 100 North Branch, (F3) 100 North Branch, (F3) 100 North Branch, (F3) 100 North Branch, (F3) 100 Cacan (E1) 170 Cakland, (A3) 1,366 Ocean, (B2) 100 Cean (Ety, (J7) 476 Oella, (F3) 670 Oldtown, (B2) 150 Orageville, (D8) 200 Oriole, (H8) 400 Overlea, (G3) 100 Overlea, (G3) 100 Overlea, (G3) 100 Overlea, (G3) 100 Parkhall, (F3) 300 Oxford, (G6) 1,191 Parkhall, (F3) 100 Parkhall, (F3) 200 Parsonsburg, (J7) 200 Parsonsburg, (J7) 200 Parsonsburg, (J7) 200 Patapsco, (F2) 250 Pekin, (B2) 200 Perry Hall, (G3) 250 Perryyman, (G3) 350 Perrywlle, (D3) 200 Phoenix, (F2) 300 Phoenix, (F2) 300 Phoenix, (F3) 300 Pikesville, (C7) 500 Pilot, (G2) 100 Poomonkey, (E6) 230 Pleasant Valley, (E2) 100 Poomonkey, (E6) 250 Pondsville, (D2) 200 Poonesville, (E4) 175 Port Deposit, (G2) 1,394 Port Republic, (G6) 140 Port Tobacco, (E6) 100 Preston, (H8) 1,006 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 120 Principio, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100 Pylesville, (G2) 100	Roorersynile, (B3) 300 Rosswille, (G3) 600 Rowlandswille, (G2) 170 Roxbury, (D2) 100 Royaloak, (G6) 220 Rumbley, (H8) 100 Ruxton, (F3) 350 Sabillasville, (E2) 200 Saint George Island, (F8) 130 Saint Helena, (G3) 150 Saint Inigoes, (G8) 300 Saint Leonard, (G7) 100 Saint Margarets, (G4) 100 Saint Margarets, (G5) 1,517 Salisbury, (H7) 6,690 Sang Ruo, (A2) 100 Sassfras, (H3) 210 Savage, (F4) 1,000 Secretary, (H6) 409 Security, (D2) 300 Seewell, (G3) 120 Shatt, (B2) 150 Sharpsburg, (D3) 960 Sharptown, (H6) 22 Showell, (G7) 130 Silver Run, (E2) 100 Silver Run, (E2) 100 Silver Run, (E2) 100 Silver Run, (E2) 100 Silver Run, (E2) 100 Silver Run, (E2) 100 Silver Spring, (H7) 130 Silver Run, (E2) 100 Silver Spring, (H7) 130 Silver Run, (E2) 100 Silver Spring, (H7) 130 Silver Run, (E2) 131 South Baltimore, (F4) 138 Somerset, (E5) 173 South Baltimore, (F4) 2,600 Sparrows Point, (G4) 2,000 Spielman, (D2) 100 Stevenson, (C7) 130 Stevenson, (C7) 130 Stevensville, (G3) 400 Suddersville, (G3) 350 Stullepord, (G3) 400 Suddersville, (C7) 100	Upper Falls, (G3). 480 Upper Marlboro, (F5)
-		MASSACE	HUSETTS			

Abineton (NTA) ME 646	
Abington, (N4) \$5,646 Acoaxet, (M7) \$150 Acton, (L3) \$2,151 Acushnet, (N6) \$2,387 Adams, (D2) \$13,218 Adamsdale, (L5) \$200 Agawam, (F4) \$4,555 Alford, (C4) \$271 Allerton, (N3) \$300 Amesbury, (N1) \$8,558 Amherst, (F3) \$5,558	
Acoaxet, (M7) 150	
Acton, (L3)2,151	
Acushpet, (N6), 2.387	
Adams, (D2) 13.218	
Adamedale (T.5) 200	
Additistate, (DJ) 200	ш
Agawam, (F4)4,353	
Alford, (C4) 271	
Allerton, (N3) 300	
Amesbury, (N1) 8.543	
Amherst, (F3). 5,558 Andover, (M2). 7,978 Annisquam, (O2). 550 Arlington, (M3). 14,889	
Andorra (352) 97 079	
Andover, (142)1,910	
Annisquam, (UZ) 550	
Arlington, (M3) 14,889	
Artington rt is.(NL3)2,200	
Ashury Grove, (N). 210	
Asbury Grove, (N). 210 Asbburnham, (J2). 2,059	
A-LL (12)	:
Ashby, (J2)922	
Ashheld, (E2)., =994	
Ashland, (L3) 2,005	
Ashley Falls, (C4) 160	
Accining (NA) 240	
A (3/5)	
Assonet (M3)800	
Athol, (H2)9,783	
Attleboro, (L5) 18,480	
Ashburnham, (12). 2,059 Ashby, (12). 922 Ashfield, (E2). 994 Ashland, (L3). 2,005 Ashley Falls, (C4). 160 Assinippi, (N4). 240 Assonet, (M5). 800 Athol, (H2). 9,783 Attleboro, (L5). 18,480 Attleboro Falls, (L5) 810 Auburn, (14). 3,281 Auburndale, (M3). 2,500 Avon, (M4). 2,164 Ayer, (K2). 2,779 Baldwiusville, (H2). 500 Ballard Vale, (M2). 540	
Auburn (14) #3 281	
Auburndala (M2) 2 500	
Augurnuate, (1913) .2,300	
Avon, (1914)2,104	
Ayer, (K2)2,779	
Baldwinsville, (H2).1,500	
Ballard Vale, (M2)., 540	
Bancroft (D3). 240	
Barnatable (D6) #4 005	
Daristable, (10) 4,773	
Darre, (1137, 3.470	
D DI L (TTO) AFO	
Barre Plains, (H3) 150	
Barre Plains, (H3) 150 Barrowsville, (M5) 120	
Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) 450	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View (O2)	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3). 450 Bay View, (O2). 200 Packet (D3) 1073	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3). 450 Bay View, (O2). 200 Becket, (D3). 973	
Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1,365	
Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1365 Bedford Sprs. (M2) 100	
Baldwinsville, (H2),1,500 Ballard Vale, (M2) 540 Bancroft, (D3) 240 Barnstable, (P6) 4,995 Barre, (H3) 4,995 Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 1,365 Bedford, (M3) 1,365 Bedford Sprs. (M2) 100 Beechwood, (N4) 100	
Barre Plains, (H3) . 150 Barrowsville, (M5) 120 Bay State, (F3) . 450 Bay View, (O2) . 200 Becket, (D3) . 973 Bedford, (M3) . 1365 Bedford Sprs. (M2) . 100 Beechwood, (N4) . 100 Belchertown, (G3) . 2.062	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1,365 Bedford Sprs. (M2) 100 Belchertown, (G3) 2,062 Bedlingham, (H4) 103	
Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1,365 Bedford, Sprs. (M2) 100 Beechwood, (N4) 100 Belchertown, (G3) 2,062 Bellingham, (L4) 1,953	
Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1,365 Bedford Sprs. (M2) 100 Belchertown, (G3) 2,062 Bellingham, (L4) 1,953 Belmont, (M3) 8,081	
Barre Plains, (H3) . 150 Barrowsville, (M5) 150 Bay State, (F3) . 450 Bay View, (O2) . 200 Becket, (D3) . 973 Bedford, (M3) . 1,365 Bedford Sprs. (M2) . 100 Beechwood, (N4) . 100 Belchertown, (G3) . 2,062 Bellingham, (L4) . 1,953 Belmont, (M3) . 8,081 Berkley, (M5) . 985	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3). 450 Bay View, (O2). 200 Becket, (D3). 973 Bedford, (M3). 1,365 Bedford Sprs. (M2). 100 Belchertown, (G3). 2,062 Bellingham, (L4). 11,953 Belmont, (M3). 8,081 Berkley, (M5). 9865 Berlin, (K3). 865	
Barre Plains, (H3) . 150 Barrowsville, (M5) 120 Bay State, (F3) . 450 Bay View, (O2) . 200 Becket, (D3) . 973 Bedford, (M3) . 1,365 Bedford Sprs. (M2) . 100 Belchertown, (G3) . 2,062 Bellingham, (L4) . 1,953 Belmont, (M3) . 8,081 Berkley, (M5) . 985 Berlin, (K3) . 985 Berlin, (K3) . 865 Bernardston, (F2) . 790	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3). 450 Bay View, (O2). 200 Becket, (D3). 973 Bedford, (M3). 1,365 Bedford Sprs. (M2). 100 Belchertown, (G3). 2,062 Bellingham, (L4). 193 Bellingham, (L4). 8,808 Berlin, (K3). 8,881 Berkley, (M5). 985 Berlin, (K3). 865 Bernardston, (F2). 790 Beverly. (N2). 22,959	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1,365 Bedford Sprs. (M2). 100 Beechwood, (N4) 100 Beechwood, (N4) 100 Belchertown, (G3) 2,062 Bellingham, (L4) 1,953 Belmont, (M3) 8,881 Berkley, (M5) 985 Berlin, (K3) 865 Bernardston, (F2) 790 Beverly, (N2) 22,959 Beverly, Errore (N2) 100	
Barre Plains, (H3). 150 Barrowsville, (M5) 120 Bay State, (F3) 450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) 1,365 Bedford Sprs. (M2). 100 Beechwood, (N4) 100 Beechwood, (N4) 100 Belchertown, (G3) 2,062 Bellingham, (L4) 1,953 Belmont, (M3) 8,881 Berkley, (M5) 985 Berlin, (K3) 865 Bernardston, (F2) 790 Beverly, (N2) 22,959 Beverly Farms, (N2)1,000 Billerica, (M2) 3,246	

		1915 STAT	MASSACI E CENSUS FIGURES	HUSETTS -=Population	of Township	
Agawam, (F4) \$4,555 Alford, (C4) 271 Allerton, (N3) 300 Amesbury, (N1) \$8,543 Amherst, (F3) \$5,558 Andover, (M2) \$7,778 Annisquam, (O2) \$50 Arlington, (M3) \$14,889 Arlington H'ts, (M3)2,200 Asbury Grove, (N) 210 Asbutnham, (J2) 20,059 Ashby, (12) 9022 Ashfield, (E2) 904 Ashland, (L3) \$2,005 Ashley Falls, (C4) 160 Assinippi, (N4) 240 Assonet, (M5) 800 Athol, (H2) 97,83 Attleboro, (L5) 18,480 Attleboro Falls, (L5) 810 Auburndale, (M3) \$2,005 Avon, (M4) \$2,814 Auburndale, (M3) \$2,500 Avon, (M4) \$2,164 Ayer, (K2) \$2,779 Baldwiusville, (H2) \$500 Ballard Vale, (M2) \$400 Bancroft, (D3) 240 Barrostable, (P6) \$4,995 Barre, (H3) \$3,476 Barre Plains, (H3) 150 Barrowsville, (M5) 120 Bay State, (F3) \$450 Bay View, (O2) 200 Becket, (D3) 973 Bedford, (M3) \$1,365 Bedford Sprs. (M2) 100	Bradstreet, (F3) 240 Braintree, (M4) 9,343 Brant Rock, (O4) 9,349 Brant Rock, (O4) 300 Brewster, (Q5) 783 Bridgewater, (M5) 9,381 Brier, (E2) 100 Brigssville, (D2) 410 Brimfield, (H4) 9,34 Brockton, (N4) 62,288 Brookfield, (H4) 9,34 Brockton, (N4) 62,288 Brookfield, (H4) 20,59 Brookline, (M3) 33,490 Brookville, (M4) 210 Bryantville, (M4) 300 Buckland, (E2) 1,569 Burlington, (M2) 751 Buzzards Bay, (O6) 400 Buckland, (E2) 1,569 Burlington, (M2) 751 Buzzards Bay, (O6) 400 Carbise, (L2) 490 Carlisle, (L2) 490 Carlisle, (L2) 490 Carver, (N5) 1,701 Caryville, (L4) 580 Cataumet, (O6) 100 Central Village, (M6) 250 Charlon Depot, (H4) 400 Chartlon, (J4) 2,213 Charlon City, (H4) 800 Chathan, (R6) 19,667 Chelmsford, (L2) 5,182 Chelsea, (M3) 43,426 Cherry Valley, (J4) 1,200 Cheshire, (D2) 1,535 Chester, (D2) 1,344	Cohasset, (N3)	E. Lexlogton, (M3) 840 E. Long Meadow, (C4) 1,039 E. Mansfield, (M4) 210 E. Mattapoisett, (N6) 100 E. Mitton, (M3) 1,700 E. Northfield, (G2) 790 E. Northfield, (G2) 790 E. Northfield, (G2) 790 E. Norton, (M5) 150 Easton, (M4) 80 E. Orleans, (R5) 280 E. Pembroke, (N4) 100 E. Pepperell, (K2) 2,400 E. Princeton, (J3) 160 E. Sandwich, (O6) 100 E. Sandwich, (O6) 100 E. Sandwich, (M4) 100 E. Sandwich, (M4) 100 E. Tauotton, (M5) 1,500 E. Walpole, (M4) 710 E. Wareham, (O5) 350 E. Walpole, (M4) 110 E. Wareham, (O7) 1,267 Egypt, (O4) 210 Edgartown, (O7) 1,267 Egypt, (O4) 100 Enfield, (G3) 806 Erving, (G2) 1,168 Essex, (N2) 1677 Fairview, (F4) 227 Fairview, (M6) 124,791 Failmouth, (O6) 8,917 Farley, (G2) 330 Farnumsville, (K4) 480 Fayville, (K3) 420 Feeding Hilla, (F4) 500 Fiskdale, (H4) 1,200 Fickburg, (J2) 3,9,556 Florence, (F3) 2,400	Gill, (F2)	Hubbardston, (H3). 1,084 Hudson, (K3). 6,758 Hull, (N3). 2,290 Huntiogton, (E4). 1,427 Hyannis, (P6). 1,500 Hyde Park, (M3). 15,507 Indian Orchard, (G4). 6,200 Ipswich, (N2). 6,272 Islington, (M4). 150 Jefferson, (J3). 900 Kendal Green, (L3). 600 Kendal Green, (L3). 600 Kendal Green, (L3). 600 Kingston, (O5). 2,580 Lake Pleasant, (G2). 150 Lakeville, (N5). 1,491 Lancaster, (K3). 2,585 Lanesboro, (C2). 1,000 Lanerville, (O2). 1,000 Lanerville, (O2). 1,000 Lanerville, (O2). 1,000 Leoster, (J3). 3,424 Lenox Dale, (D3). 3,448 Leeds, (F3). 1,100 Leicester, (J3). 3,500 Leominster, (J2). 17,646 Leverett, (G3). 779 Lexington, (M3). 5,538 Leyden, (F2). 344 Lincoln, (L3). 1,310 Linwood, (K4). 1,400 Littleton, (K2). 1,288 Littleton Common, (K2). 1,288 Ludlow, (G4). 1,610 Longmeadow, (F4)*1,782 Long Plain, (N6). 230 Loudville, (F3). 1,30 Loudville, (F3). 1,310 Loudville, (F3). 1,310 Loudville, (F3). 1,310 Loudville, (F3). 1,310 Loudville, (F3). 1,310 Loudville, (F3). 1,358,803 Lynnfield, (N2). *1,112 Lvnnfield Center, (G4) 560 Lvnnfield (N2). *1,112 Lvnnfield Center, (L9). *1,112	M M M M M M M M M M M M M M M M M M M

E CENSUS FIGURES	
E. Lexlogton, (M3) . 840 E. Long Meadow,	000000000000000000000000000000000000000
	Č
E. Manefield (M4) 210	Ğ
E. Mattapoisett, (N6) 100 E. Milton (M3) 1 700	G
E. Northfield. (G2) 790	č
E. Norton, (M5) 150	Č
E. Mattapoisett, (No) 100 E. Milton, (M3)1,700 E. Northfield, (G2) 790 E. Norton, (M5) 150 Easton, (M4)5,064 Eastondale, (M4) 380	Č
E. Orleans (R5) 280	Č
E Otis, (D4)	
E. Pembroke, (N4) 100	C
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Arrow Rock, (F4). 336 Asbury, (C8). 200 Ashberville, (M9). 120 Ashgrove, (E8). 1,075 Ashland, (H5). 341 Ashley, (K4). 480 Carplinger Mills, (E2). 130 Ashgrove, (E8). 1,075 Ashland, (H5). 341 Ashley, (K4). 480 Carrollton, (E4). 3,452 Ashton, (D2). 200 Athens, (J1). 140 Cartareville, (D8). 4,539 Atherton, (D4). 120 Athens, (J1). 140 Carthage, (D8). 9,483 Augusta, (L5). 267 Aullville, (E4). 166 Aurora, (E9). 4,148 Cacar Ulterville, (E9). 781 Aullville, (E4). 166 Catawissa, (L6). 130 Avanora, (E9). 4,148 Cacar City, (H5). 208 Aurora Springs, (E6) 135 Cassville, (E9). 781 Austin, (D5). 300 Cadargap, (G8). 112 Austin, (D5). 300 Avalun, (F3). 500 Avalua, (B8). 150 Avon, (M7). 120 Centar Station, Avalia, (D8). 150 Avon, (M7). 120 Center City, (D4) 100 Centar Station, (L5). 300 Bardley, (K9). 100 Bakersfield, (H9). 270 Centerview, (E5). 400 Baring, (H2). 379 Centerview, (E5). 400 Baring, (H2). 379 Centralia, (H4). 2,116 Barnard, (C2). 338 Chadwick, (F9). 150 Barrett, (G6). 118 Chadwick, (F9). 150 Bay, (J5). 130 Chambis, (J5). 649 Barty, (C4). 150 Chambis, (J5). 400 Belgique, (N7). 150 Chambis, (J5). 400 Belgique, (N7). 150 Charleston, (O9). 314 Bayouville, (O9). 100 Charleston, (O9). 314 Baylouville, (M9). 270 Centerville, (H1). 322 Centerville, (H1). 322 Centerville, (H1). 322 Centerville, (H1). 322 Centerville, (H1). 322 Centerville, (H2). 332 Centerville, (H3). 323 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 324 Centerville, (H3). 3	Curryville, (K4) 238 Cyrene, (K4) 94 Dadeville, (E8) 401 Dallas, (C5) 130 Daltan, (F4) 261 Danville, (J5) 113 Daltan, (F4) 261 Danville, (J5) 113 Darlington, (D2) 352 Dawa, (E3) 400 Dawson, (H8) 140 Dearborn, (C3) 499 De Camp, (J7) 130 Deepwater, (E6) 1,598 Deerfield, (C7) 129 Deering, (N10) 500 De Kalb, (C3) 391 De Lassus, (M7) 150 Denver, (D2) 450 Deray, (N8) 175 Des Arc, (L8) 287 Desloge, (M7) 4,000 De Soto, (L6) 4,721 Desperes, (M15) 350 De Witt, (F4) 423 Dexter, (N9) 2,322 Diamond, (D8) 500 Diehlstadt, (O9) 160 Dillard, (K7) 100 Dixon, (H6) 715 Dodson, (C5) 150 Doe Run, (L7) 950 Dongola, (N8) 72 Doniphan, (L9) 122 Dover, (E4) 214 Downing, (H2) 513 Dresden, (F5) 180 Drexel, (C6) 512 Duncans Bridge, (H3) 100 Duncan, (B8) 2,500 Duncan (G8) 200 Duncans Bridge, (H3) 100 Duncan, (B9) 250 Duncan, (B9) 250 Duncan, (B9) 250 Duncan, (B9) 250 Duncan, (B9) 250 Duncan, (B9) 250 Duncan, (B1) 251 Dunbam, (B1) 150 Dassat Bonne Terre, (M7) 180 East Lynne, (D5) 277 Easton, (C3) 225 East Prairie, (O9) 1,500 Edna, (M8) 1,20 Eddon, (G6) 1,999 Eldorado Springs, (E7) 250 Ellington, (L8) 502 Elenez, (F9) 130 Elston, (H3) 110 Edgar Springs, (J7) 100 Edgar Springs, (J7) 100 Edina, (H2) 1,562 Edinburg, (E2) 200 Ellington, (L8) 500 (M7)	Houstonia, (F5) 349 Howell, (L5) 100 Hughesville, (F7) 100 Hughesville, (F7) 110 Humansville, (E7) 913 Hume, (C6) 514 Humphreys, (F2) 292 Hunnewell, (J3) 406 Hunterville, (N9) 230 Huntsville, (G4) 2,247 Hurdland, (H2) 322 Hunley, (F9) 100 Hutton Valley, (J9) 100 Hyman, (N9) 100 Iantha, (D7) 250 Iatan, (C4) 125 Iberia, (H6) 428 Idalia, (N9) 200 Illasco, (K3) 150 Illmo, (N8) 976 Independence, (D4) 9,859 Ionia, (F6) 100 Irondale, (L7) 338 Ironton, (L7) 338 Ironton, (L7) 721 Jackson ville, (H3) 200 Jameson, (E2) 358 Jamesport, (E3) 611 Jamestown, (H5) 305 Jane, (D9) 200 Jasper, (D8) 664 Jefferson Barracks, (M6) 366 Jefferson Barracks, (M6) 360 Lefterson Barracks, (M6) 37 Jennings, (M5) 800 Jerico Springs, (D7) 395 Jerome, (J7) 100 Johnstown, (D6) 84 Jonesburg, (K5) 456 Joplin, (D8) 32,073 Josephville, (L5) 260 Kaboka, (J2) 1,758 Kansas City, (C4) 248,381 Kearney, (D4) 631 Keener, (M9) 150 Keystone, (D3) 100 Keytswille, (G4) 963 Kingbee, (L9) 150 Keystone, (D3) 306 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 Kingston, (D3) 308 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Revere, (J2) . 196 Reynolds, (K8) . 250 Rhineland, (J5) . 190 Richards, (C7) . 303 Rich Rountain, (J6) . 130 Rich Rountain, (J6) . 130 Rich Hill, (D6) . 2,755 Richland, (H7) . 884 Richmond, (E4) . 3,664 Richwoods, (L6) . 180 Ridgeway, (E2) . 841 Risco, (N9) . 100 Ritchey, (D9) . 310 River Aux Vases, (M7) . 170 Roanoke, (G4) . 110 Rocheport, (G5) . 434 Rochester, (C3) . 200 Rockohill, (M5) . 150 Rockowille, (D6) . 566 Rocky Comfort, (D9) . 300 Rockhill, (M5) . 150 Rockowille, (D6) . 566 Rocky Comfort, (D9) . 300 Rockowille, (D6) . 566 Rocky Comfort, (D9) . 300 Rockhill, (M5) . 150 Rockowille, (D6) . 566 Rocky Comfort, (D9) . 300 Rockhill, (H5) . 335 Rutledge, (H2) . 182 Saint Catharine, (G3) . 100 Raint Francois, (M7) . 1, 400 Saint Francisville, (H5) . 337 Saint Clair, (L6) . 397 Saint Elizabeth, (H5) . 308 Rutledge, (H2) . 418 Saint Aubert, (J5) Saint Francisville, (M5) . 150 Saint Francisville, (M7) . 1, 903 Saint Jonseph, (M5) . 100 Saint Francois, (M7) . 1, 903 Saint Jonseph, (M5) . 100 Saint Francois, (M7) . 1, 903 Saint Jonseph, (M9) . 100 Schell City, (D6) . 562 Scheve, (L6) . 50 Schiicht, (H7) . 100 Saint Francois, (M7) . 1, 903 Saint Jonseph, (M9) . 100 Saint Francois, (M9) . 100 Saint Francois, (M9) . 100 Saint Francois, (M9) . 100 Saint Francois, (M9) . 100 Saint Francois, (M9) . 100 Saint Francois, (M9) . 100 Saint Paule, (M9) . 100 Saint Paule, (M9) . 100 Saint Paule, (M9) .	
Blodgett, (N9). 422 Commerce, (O8). 544 Bloodland, (H7). 100 Conception Junc- Bloomington, G3) 100 Conception Junc- inn, (C2). 200 Blomington, G3) 100 Connedia, (E5). 931 Bloomsade, (M6). 100 Connelsville, (G2) 652 Blue Ridge, (E2). 67 Conran, (N10). 196 Blue Springs, (D4) 561 Conway, (G8). 394 Blythedale, (E2). 345 Cooter, (N10). 300 Boaz, (F8). 150 Cora, (F2). 110 Bogard, (E4). 316 Corder, (E4). 649 Bois D'Arc, (F8). 200 Corruing, (B2). 253 Bolivar, (F7). 1,975 Cosby, (C3). 170 Bonnils, (M5). 100 Cottleville, (L5). 280 Bonne Terre, (L7) 5,700 Cottonwood Point, Bonnots Mill, (J5) 160 Boonville, (G5). 4,252 Courley, (D4). 100 Bowern, (E5). 200 Craig, (B2). 363 Bowen, (E5). 200 Craig, (B2). 363 Bowen, (E5). 200 Craig, (B2). 621 Bowern Mills, (D8). 82 Cowgill, (E3). 363 Bowen, (E5). 200 Creighton, (N10). 150 Brandsville, (I9). 200 Creve Coeur, (M5). 400	Fayette, (G4) 2,586 Fayetteville, (E5) 200 Federal, (L7) 499 Fenton, (M5) 172 Ferguson, (M5) 1,658 Fernridge, (M5) 150 Fertile, (L7) 100 Festus, (M6) 2,556 Fillmore, (C2) 232 Fisk, (M9) 1,000 Flag Springs, (C2) 110 Flat River, (L7) 5,112 Fleming, (D4) 650 Flemington, (F7) 250 Florida, (J4) 200 Floridan, (M5) 765 Foley, (L4) 227 Forbes, (B3) 300 Fordland, (G8) 350 Fordland, (G8) 350 Forest City, (B3) 5,34 Forest Park, (E9) 478 Foristell, (L5) 255 Fornfelt, (N8) 1,000 Forsyth, (F9) 187 Fortuna, (G5) 203 Foster, (D6) 318 Fox, (E4) 735 Frankford, (K4) 793 Frankford, (K4) 793	Hermiani, (K5), 392 Hermitage, (F7) 300 Hibbard, (O9), 243 Hickman Mills, (D5)	Lewistown, (J2). 405 Lexington, (E4). 5,242 Liberal, (C7). 800 Liberty, (D4). 2,980 Liberty, (IP4). 351 Libourn, (N9). 484 Lincoln, (F6). 336 Linden, (C4). 200 Link, (IP6). 336 Linden, (C4). 100 Linn, (J6). 532 Linnerek, (G6). 435 Linnens, (F3). 882 Linnens, (F3). 882 Lisbon, (G4). 100 Lithium, (N7). 98 Littlerock, (G4). 150 Livonia, (G2). 250 Lock Spring, (F3). 255 Lock wood, (E8). 961 Logan, (E8). 100 Lohman, (H5). 100 Lohman, (H5). 100 Lonejack, (D5). 140 Longlane, (G7). 140 Longlane, (G7). 140 Longtown, (N7). 158 Longwood, (F5). 200 Loose Creek, (J5). 100	Moscow, (L4)	Pilot Grove, (G3) 203 Pilot Grove, (G3) 654 Pilot Knob, (L7) 445 Pilot Lawn, (M5) 200 Pineville, (D9) 500 Pioneer, (D9) 100 Pittsburg, (F7) 100 Platto, (H7) 100 Platto, (H7) 100 Platte City, (C4) 763 Plattsburg, (D3) 1,650 Pleasant Green, (G5) 68 Pleasant Hill, (D5) 2,065 Pleasant Hope, (F8) 300 Pocabontas, (N8) 239 Point Pleasant, (N10) 99 Pollock, (F2) 200 Pollock, (F2) 200 Pollock, (F2) 200 Pomona, (J9) 250 Poplar Bluff, (M9) 6,916 Portage Des Sioux, (M5) 218 Portageville, (N10) 987 Portland, (J5) 280 Postoak, (E5) 100 Potosi, (L7) 772 Powersville, (F1) 500 Prairie Hill, (G3) 113	Seligman, (E9) 400 Senath, (M10) 1,029 Seneca, (C9) 981 Seventysix, (N7) 150 Seymour, (G8) 590 Shackelford, (F4) 100 Shawneetown, (N7) 120 Shelbina, (H3) 2,174 Shelbyville, (H3) 685 Sheldon, (D7) 528 Sheridao, (C1) 409 Sibley, (D4) 200

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Speed, (G5) 100 Stotts City, (E8)., 548	Taneyville, (F9) 100	Troy, (KS)1,120	Vibbard, (D4) 110	Waverly, (E4) 777	Westville, (G3) 150	Windom, (M5) 300
Spickard, (E2) 638 Stoutland, (G7) 250	Taps, (H6) 100	Truxton, (K4) 280	Vichy, (J6) 200	Wayland, (J2), 384	Wheatland, (F7) 400	Windsor, (ES)2,241
Spoonerville, (M10) 241 Stoutsville, (J3) 315						
Sprague, (D6) 156 Stover, (G6) 386	Tea, (K6) 100	Tuscumbia, (H6) 285	Vienna, (J6) 300	Weatherby, (D3) 171	Wheeling, (F3) 490	Winigan, (G2) 170
Spring City, (C9) 150 Strafford, (F8) 300	Tebbetts, (JS) 200	Tuxedo, (MS) 800	Villa Ridge, (L6) 150	Weaubleau, (F7) 347	Whiteoak, (N10) 250	Winkler, (J7) 100
Springfield, (F8)35,201 Strasburg, (D5) 350	Teresita, (J9) 150	Tyler, (N10) 180	Viola, (E9) 100	Webb City, (C8)11,817	Whiteside, (L4) 129	Winona, (K8) 444
Springfork, (F5) 130 Stratmann, (M5) 250	Thayer, (J9)1,613	Ulman, (H6) 120	Vista, (E7) 100	Webster Groves,	Whitesville, (C2) 290	Winston, (D3) 257
Spring Garden, (H6) 60 Sturgeon, (H4) 663	Thomas Hill, (G3) 100	Union, (L6) 934	Waco, (C8) 150	(M5)7,080	Whitewater, (N8) 250	Wittenberg, (N7) 87
Sprott, (M7) 150 Sue City, (H3) 100						
Spurgeon, (D9) 250 Sugar Creek, (D4) 500	Thornfield, (G9) 100	Uniontown, (N7) 210	Waldron, (C4) 160	Wellston, (MS)7,312	Whiting, (O9) 242	Woollam, (J6) 160
Stahl, (G2) 300 Sullivan, (K6) 934						
Stanberry, (C2)2,121 Sulphur Springs,						
Stark City, (D9) 200 (M6) 200						
Steele, (N10) 500 Summersville, (J8) 236						
Steelville, (K7) 773 Sumner, (F3) 394	Topozark, (L7) 60	Utica, (E3) \$00	Warren, (J3) 100	Westalton, (M5) 300	Williamstown, (J2) 204	(K5) 377
Steffenville, (J3) 120 Swedeborg, (H7) 100	Tracy, (C4) 176	Valley Park, (L5)1,800	Warrensburg, (ES) 4,689	Westboro, (B1) 333	Williamsville, (M9). 477	Wyaconda, (J2) 480
Stella, (D9) 180 Sweet Springs, (F5) 1,122	Trask, (J9) 90	Vanburen, (L9) 400	Warrenton, (K5) 795	West Fork, (K7) 120	Willmathsville, (H2) 100	Wyatt, (09) 150
Stephens Store, (H5) 150 Syenite, (M7) 200	Treloar, (K5) 43	Vandalia, (J4)1,595	Warsaw, (F6) 824	West Line, (C5) 120	Willow Springs,	Wylie, (D9) 200
Stewartsville, (C3) 543 Syracuse, (G5) 193	Trenton, (E2)5,656	Vanduser, (N9) 388	Washburn, (E9) 219	Weston, (C4)1,019	(H8)1,401	Yates, (G4) 200
Stockton, (E7) 590 Taberville, (E6) 150						
Stotesbury, (C7) 159 Taft, (L9) 60	Triplett, (F4) 473	Versailles, (G6)1,598	Watson, (A2) 245	Westplains, (19)2,914	Winchester, (J2) 150	Zincite, (C8)1,000

MONTANA

Albright, (F2) 130	Boulder, (D3) 1,300	Dagmar, (M1) 200	Garneill. (G3) 150	Hogan, (D2) 100	Manhattan, (E4) 300	Rocker, (D4) 100	Terry, (L3) 70	0
Alder. (D4) 150	Bowler, (H4) 100	Dayton, (B2) 100	Garnet, (C3) 250	Huntley, (H4) 250	Marysville, (D3) 2,000	Rosebud, (K3) 250	Thompson, (A2) 50	Õ
Aldridge, (E4) 300	Bozeman, (F4) 5,107	Deborgia, (A2) 150	Garrison, (D3) 100	Hylent, (A2) 250	Meaderville, (D3) 1,850	Roundup, (H3)1,513	Thompson Falls.	
Anaconda, (C3) 10,134	Bridger, (G4) 514	Deer Lodge, (D3) 2,570	Gateway, (B1) 150	Iron Mountain, (A2) 310	Meadow Creek, (E4) 100	Ruby, (D4) 200	(A2) 32	S
Argo, (E3) 110	Briston, (C4) 100	Dillon, (D4)1,835	Gilt Edge, (G2) 300	Ismay, (M3) 300	Melrose, (D4) 200			
		Divide, (D4) 100			Melstone, (J3) 200			
Armington, (F2) 100	Browning, (C1) 100	Dodson, (H1) 100	Glendive, (M2) 2,428	Jefferson City, (E3) 100	Miles City, (L3) 4,697	Saint Regis, (A2) 350	Townsend, (E3) 75	9
Armstead, (DS) 300	Butte, (D4)39,165	Drummond, (D3) 350	Gould, (D3) 100	Jennings, (A1) 100	Missoula, (C3)12,869	Saltese, (A2) 350	Trident, (E4) 15	0
Augusta, (D2) 240	Cameron, (E4) 100	Dupuyer, (D1) 380	Granite, (C3) 350	Jessup, (B1) 200	Monarch, (F2) 300	Sandcoulee, (E2) 2,000	Troy, (A1) 200	0
Avon, (D3) 100	Canyon Ferry, (E3) 100	East Helena, (E3) 1,200	Grant, (C4) 100	Jocko, (B2) \$50	Mondak, (M1) 350	Shannon, (E3) 100	Twin Bridges, (D4). 49	1
					Moore, (G2) 573			
					Musselshell, (J3) 150			
					Neihart, (F3) 268			
					New Chicago, (C3). 200			1
					Noxon, (A2) 100			
					Oldham, (F1) 150			
					Paradise, (B2) 250			
Bellry, (G4) 150	Clancey, (E3) 300	Fairview, (M2) 100	Harrison, (E4) 150	Laurin, (D4) 100	Park City, (H4) 400	Snowshoe, (A1) 100	Whitensh, (B1) 1,479	9
					Philipsburg, (C3) 1,109			7
					Plains, (B2) 481			
Belt, (F2)1,158	Columbus, (G4) 321	Forsyth, (K3)1,398	Hays, (H1)	Libby, (A1)	Polson, (B2) 300	Stanford, (F2) 200	Springs, (F3) 417	
					Pony, (E4) 369			
					Poplar, (L1) 200			
					Radersburg, (E3) 370 Rancher, (J3) 130			
					Red Lodge, (G4) 4,860			
Pleashurg (D2) 250	Culberteen (M1) \$28	Fromberg (H4) 300	Hobson (G2) 200	Malta (11) 433	Riedel, (G1) 150	Sweet grace (D1) 200	Wiedom (C4)	0
					Rimini, (D3) 100			
Donner, (Co) 100	Cut Danis, (2/1) 250	Omena, (20/2222 300	2001man, (14) 200	Manumota, (D4) 100	100	* marty (***/*********************************	ZARCHIALI, (112) 33(U.

NEBRASKA

Abie, (P5) 210 Brady, (H5) 308		Gladstone, (O7) 100	Kennard, (Q5) 319	Nebawka, (Q6) 200	Ralston, (Q5) 200	Swanton, (07) 285
Adams, (P7) 647 Brainard, (OS) 468 Ainsworth, (J2) 1,045 Brewster, (J4) 230	Davenport, (N7) 484	Glenville, (M6) 304 Goehner, (O6) 110	Kimball, (AS) 454	Neligh, (M3) 1,566 Nelson, (M7) 978	Randolph, (O3) 1,137 Ravenna, (L5) 1,359	Syracuse, (Q6) 842 Table Rock, (Q7) 814
Alhion, (M4) 1,584 Bridgeport, (B4) S41 Alda, (L6) 100 Bristow, (L2) 175	Davey, (P6) 120	Gordon, (D2) 920 Gothenburg, (H6) 1,730	Lanham, (P7) 120	Nemaha, (R7) 325 Newcastle, (P2) 436	Raymond, (P6) 236 Red Cloud, (L7) 1,686	Talmage, (R6) 461 Tamora, (O6) 205
Alexandria, (O7) 447 Brock, (R7) 434	Dawson, (R7) 340	Grafton, (N6) 353	Lawrence, (M7) 475	Newman Grove,	Republican City,	Tarnov, (N4) 121
Allen, (P3) 371 Broken Bow, (J5) 2,260 Alliance, (C3) 3,105 Brownville, (R7) 457	Daykin, (O7) 220 Decatur, (Q4) 782	Grand Island, (M6) 10,326 Grant, (E6)	Leigh (O4) 567	(N4) 850 Newport, (K2) 268	(K7) 476 Reynolds, (O7) 246	Taylor, (K4) 200 Tecumseh, (Q7) 1,748
Alma, (K7) 1,066 Brule, (E5) 120 Alvo, (Q6) 230 Bruning, (N7) 353	Deshler, (N7) 609	Greeley, (M4) 845 Greenwood, (Q6) 387	Leshara, (QS) 86	Nickerson, (P4) 140 Niobrara, (N2) 822	Richland, (OS) 156	Tekamab, (Q4) 1,524 Thayer, (O6) 180
Amherst, (K6) 256 Bruno, (P5) 245	DeWitt, (P7) 675	Gresham (O5) 344	Lewiston, (O7) 130	Nora (M7) 100	Diverton (T7) 260	Thedford (G4) 230
Anoka, (L2) 145 Brunswick, (M3) 278 Anselmo, (J4) 351 Burchard, (O7) 315	Dixon (P3) 217	Grefna, (Q5) 484 Gross, (L2) 111 Guide Rock, (M7) 690	Lexington, (J6) 2,059 Liberty, (P7) 394	Norfolk, (N3) 6,025 Norman, (L7) 130 North Bend, (P4) 1,105	Roca, (P6)	Thurston, (P3) 112 Tilden, (N3) 901
Ansley, (K5) 700 Burkett, (M6) 400	Dodge, (P4) 661	Guide Rock, (M7) _ 690 Hadar, (N3) _ 140	LINCOLN, (P6)43,973	North Bend, (P4) 1,105	Rogers, (PS) 155	IDD125 (117) 445
Arcadia, (K5) 618 Burton, (J2) 100	Dorchester, (O6) 610	Haigler, (E7) 205	Linwood, (P5) 329	North Loup, (LS). 519 North Platte, (G5) 4,793	Rosalie, (Q3) 147 Roseland, (L7) 249	Trenton, (F7) 497 Trumbull, (M6) 180
Arlington, (Q5) 645 Burwell, (K4) 915 Armour, (Q7) 100 Butfe, (L2) 550		Hallam, (P6) 168 Hampton, (N6) 383		Oak, (N7) 237 Oakdale, (N3) 631	Royal, (M3) 130 Rulo, (S7) 661	Tryon, (G4) 100 Uehling, (Q4) 228
Arnold, (HS) 231 Byron, (N7) 184	Dunbar, (Q6) 216	Harbine, (P7) 150	Long Pine, (J2) 781	Oakland, (Q4) 1,073 Oconto, (JS) 245	Rushville, (D2) 633	Ulysses, (OS) 551
Ashland, (QS) 1,379 Cairo, (LS) 364 Ashton, (LS) 404 Callaway, (JS) 765	Dundee, (RS) 1,023	Hardy, (N7) 496 Harrisburg, (A4) 140	Loretto, (N4) 100	Octavia (OS) 150	Saint Edward, (N4) 814	Unadilla, (Q6)
Asylum, (P6) 600 Cambridge, (H7) 1,029 Atkinson, (L2) 810 Campbell, (L7) 573	Dunning, (H4) 120 Dwight, (O5) 184	Harrison, (A2) 186 Harrington, (O2) 1,413	Lorton, (O6) 115	Odell. (P7) 427	Saint Helena, (O2) 148 Saint Paul, (M5) 1,336	University Place, (P6) 3,200
Atlanta (I7) 250 Carleton (N7) 410	Fagle (06) 360	Harvard. (M6) 1.102	Loup City, (K.5) 1.128	Ogallala, (ES) 643 Ohiowa, (O7) 373	Colem (D7) 201	Upland, (L7) 390-
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Auburn, (R7) 2729 Carroll, (03) 382 Aurora, (M6) 2,630 Cedar Bluffs, (P5) 500 Avoca, (Q6) 249 Cedar Creck, (Q5) 180 Axtell, (K7) 394 Cedar Rapids, (M4) 576	Edison, (J7)	Hayes Center, (F6). 330	Lyons, (Q4) 865 McCook, (G7) 3,765	Ong, (N7) 285 Orchard, (M3) 532	Schuyler, (OS) 2,152	Valley, (QS) 810 Valparaiso, (PS) 560
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Bradshaw, (N6) 359 Danbury, (H7) 268	Giltner, (M6) 300	Kenesaw, (L6) 657	Nebraska City,(R6) 5,488	Ragan, (K7) 214	Sutton, (N6) 1,702	Yutan, (Q5) 353.

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Baouock, (E2) 250 Battle Mountain, (D2) 400 Bauvard, (G1) 200 Beatty, (E6) 300 Blackhorse, (G3) 300 Blackhorse, (G3) 500 Buckskin, (B4) 200 Bunkerville, (G6) 100 Cafente, (G5) 500	Cherry Creek, (G3) 350 Columbia, (D5) 1,000 Contact, (G1) 150 Cortez, (E2) 110 Crescent, (F7) 100 Currie, (G2) 100 Dayton, (B3) 580 Delamar, (G5) 700 Dutchcreek, (C4) 200 East Elv. (G3) 1.500	Empire, (B3) 330 Eureka, (F3) 1,800 Fallon, (C3) 74t Farrell, (D2) 200 Franktown, (B3) 120 Gardnerville, (B4) 210 Genoa, (B3) 440 Gillis, (C4) 100 Glenbrook, (A3) 230 Golconda, (D2) 800	Goldfield, (D5) 4,838 Gold Hill, (B3) 2,100 Goodsprings, (F7) 100 Granite, (C4) 200 Hamilton, (F3) 300 Hawtborne, (C4) 1,000 Hill Top, (E2) 100 Hill Top, (E2) 100 Horn Silver, (D5) 1,000 Imlay, (C2) 250 Jumbo, (B3) 100 Las Vegas, (G6) 1,500 Lee, (F2) 150	Lovelocks, (C2) 1,000 Lucky Boy, (C4) 800 McGill, (G3) 2,200 Mauhattan, (E4) 750 Marble, (C4) 100 Mason, (B3) 150 Mazuma, (C2) 200 Melvin, (G3) 150 Mizpah, (G2) 150 Morning Star, (B4)	Owyhee, (E1) 500 Palisade, (E2) 150 Panaca, (G5) 350 Paradise Valley, (D1) 600 Pinegrove, (B4) 200 Pioche, (G5) 1,000 Pioneer, (E4) 1,200 Prospect, (E3) 150 Pyramid, (B2) 150	Rhyolite, (16)	Sweetwater, (B4) 150 Tonopah, (D4) 5,900 Tuscarora, (E1) 300 Unionville, (C2) 100 Verdi, (A3) 500 Vermoq, (C2) 150 Virginia City, (B3) 2,244 Wadsworth, (B3) 800 Wells, (F1) 260 Whiterock, (E1) 150
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Carlin, (E2) 500 (2arlin, (E2) 420	East Ely, (G3) 1,500 Edgemont, (E1) 100	Golconda, (D2) 800 Goldbug, (C2) 150	Las Vegas, (G6)1,500 Lee, (F2)150	Mountain City, (F1)	Ramsey, (B3) 120 Rawhide, (C4) 5,100	Silver City, (B3) 350 Sparks, (B3) 2,500	Wionemucca, (D2) 1,786 Yerington, (B4) 682
				MPSHIRE			
Bradford, (F10). "695 Breutwood, (K12) "759 Bridgewater, (H9) "187 Bristol, (G9). "247 Broskline, (H13). "501 Campton, (H8). "845 Canaao, (G9). "1,408 Canaao Street, (G9) 150 Candia, (J11). "993 Candia Village, (J11) 150 Caudia, (J11). "993 Candia Village, (J11) 1680 Carroll, (H6). "569 Center Barnstead, (J10). 500 Center Conway, (K8). 200 Center Effingham, (K9). 100 Center Harbor, (J9) "420	Calasynie, (35)	Enfield, (F9)	## POPULATIO Hancock, (F12)	Marlboro Depot. (F12)	Northumberlaad, (J5)	Snort Falls, (J11) 140 Silver Lake, (K83 300 Smithtown, (L12) 100 Snowville, (K83 220 Somersworth, (L10) 6,704 S. Acworth, (E11) 250 S. Barnstead, (J10) 100 S. Barnstead, (J10) 100 S. Barnsteawn, (E11) 100 S. Charlestown, (E11) 100 S. Charlestown, (E11) 100 S. Danbury, (G10) 120 S. Danville, (K12) 180 S. Deerfield, (J11) 100 S. Effiogham, (K9) 100 S. Hampton, (K12) 270 S. Kingston, (K12) 270 S. Kingston, (K12) 100 S. Lyndeboro, (G12) 520 S. Merrimack, (H12) 100 S. Seabrook, (L12) 100 S. Seabrook, (L12) 100 S. Stoddard, (F11) 100 S. Stoddard, (F11) 100 S. Stoddard, (F11) 100 South Sutton, (G10) 120 S. Tamworth, (J8) 290 South Weare, (G11) 50 Spofford, (E12) 260 Springfield, (F9) 422 Stark, (J5) 448 State Line, (F13) 184 State Line, (F13) 184 State Line, (F11) 255 Strafford, (K11) 786 Strafford (K11) 786 Strafford (K11) 786 Strafford, (K11) 100 Surgar Hill, (G7) 380 Sullivan, (F11) 200 Tamworth, (J8) 993 Temple, (G12) 284 The Weirs, (J9) 553 Thorntons Ferry, (H12) 130 Tilton, (H10) 1,866 Troy, (F12) 1,331 Tuttonboro, (K9) 612 Twin Mtn., (H6) 200	Unity, (F10)

NEW IERSEY

Kingsland, (G3). 800 Manalapan, (F5). 30 Kingsland, (E5). 300 Manasquan, (G6). 1,81 Kingston, (E5). 100 Mantoloking, (G6). 5 Kinkwora, (E6). 100 Mantua, (C7). 75 Kirkwood, (D7). 160 Maple Shade, (D7). 20 Kresson, (D7). 300 Maplewood, (F4). 60 La Fayette, (E2). 400 Marcella, (F3). 130 Lake Como, (H6). 230 Margate City, (F9). 29 Lakehurst, (F6). 1,000 Marksboro, (D3). 100 Lambertville, (D5). 4,600 Marlboro, (F5). 4,000 Landing, (D3). 120 Marmora, (E9). 200 Landisyille, (D8). 140 Martinsville, (E4). 155 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Laurel Springs (D7). 791 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5). 170 Marenyan, (E5).	Morristown, (F3) 13,006 N	N. Wildwood, (D1111,088 Norwood, (H3). 680 Nutley, (G3). 7,987 Dakhurst, (G5). 300 Dakland, (G2). 628 Daklyn, (C7). 793 Dak Ridge, (F2). 110 Dak Tree, (F4). 200 Decan City, (E9). 3,721 Decangate, (G7). 100 Decan Grove, (H6) 3,100 Decan (G5). 600 Decanport, (G5). 400 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G7). 150 Decanport, (G8). 125 Decanport, (G8). 125 Decanport, (G8). 128 Decanport, (G8). 128 Decanport, (G8). 128 Decanport, (G8). 128 Decanport, (G8). 128 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8). 412 Decanport, (G8)	Point Pleasant Beach, (G6) 1,204 Pointville, (E6) 300 Pompton Lakes, (G2)1,400 Pompton Plains, (F3) 320 Pornthown, (C8) 180 Port Colden, (D3) 310 Port Elizabeth, (D9) 200 Port Monmouth, (G5)	Rumson, (G5)1,583 Runnemede, (C7)100 Rustic, (E3)	Stepheusburg, (D3) 180 Stewartsville, (C4) 560 Stillwater, (D2) 120 Stirling, (E4) 540 Stockholm, (F2) 430 Stockholm, (F2) 430 Stockholm, (F2) 450 Stoutshurg, (D5) 100 Stratford, (D7) 100 Succasunna, (E3) 610 Summit, (F4) 9,136 Surf, (G8) 44 Sussex, (E2) 1,251 Swainton, (D10) 310 Swedesboro, (B7) 1,738 Sykesville, (E6) 130 Tabor, (F3) 200 Tansboro, (D7) 480 Tenaßy, (H3) 2,99 Tennet, (F5) 100 Thorofare, (C7) 130 Three Bridges, (D4) 300 Tinton Falls, (G5) 200 Titusville, (D5) 300 Toms River, (G7) 2,200 Tremley, (F4) 300 Tuckaboe, (D9) 800 Tuckerton, (F8) 1,312 Turnersville, (C7) 180 Union, (G3) 21,739 Union, (F4) 1,900 Upper Mootclair, (G3) 1,100 Upper Mootclair, (G3) 1,100 Upper Mootclair, (G3) 1,00 Upper Mootclair	Weymouth, (D8), 973 Wharton, (E3), 2,591 Whippany, (F3), 970 Whitehouse, (E4), 100 Whitehouse (E4), 100 Whitehouse Station, (E4), 350 Whitesboro, (D10), 120 Whitesville (F6), 200 Wildwood, (D11), 3,858 Wildwood Crest, (D11), 3858 Wildwood Crest, (D11), 317 Williamstown, (D8), 1,600 Winslow, (D8), 250 Woodbird, (E6), 300 Winslow, (D8), 250 Woodbird, (D10), 1,869 Woodbird, (C7), 288 Woodbury, (C7), 5,288 Woodbury, (C7), 5,288 Woodbury, (C7), 878 Woodcliff Lake, (C2), 522 Woodlyune, (C7), 878 Woodcridge, (G3), 1,500 Woodswille, (D5), 100 Wortendyke, (G3), 450 Wirghtstown, (E6), 220 Wyckoff, (G2), 330 Wyardville, (D5), 350 Wirghtstown, (E6), 350	
		NEWM	EXICO				

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Abiquiu, (C2) 500 Capitan, (D5) 100	Copper (C3) 200	Fort Sumper (E4) 400	Kingston (B6) 290	Mescalero (DS) 160	Polyadora (RA) 420	Santa Rita, (B6) 1,900
Acme, (E5) 120 Carlsbad, (E6) 1,730	Cordova (D2) 350	Fort Wingate, (A3). 550	Lacueva (D3) 570	Mesilla (C6) 1 300	Portales (E4) 1 202	Santa Rosa, (E4) 1,000
Alameda, (C3) 400 Carrizozo, (D5) 750	Corona (D4) 200	Fruitland, (A2) 450	Lagura (R4) 1 000	Miera (F2) 450	Puerto del una (E4) 1 100	Sapello, (D3) 360
Alamogordo, (C6) 3,600 Carthage, (C5) 150		Galisteo, (D3) 730	Laiova (CA) 350	Millian (R5)	Punto (D4)	Sapello, (D3) 360
Alamogordo, (Co) 5,000 Carcuage, (Co) 130		Gallina, (C2) 260	Lake Arthur (ES) 344	Mimbeas (D6)	Dutage (D2)	Sawyer, (B4) 500
Albert, (F3) 180 Casasalazar, (B3) 130	Cubero (R2) 250	Gallup (A2) 2 204	Take Valley (R6) 220	Morallon (A5) 600	Questa (D2)	Seama, (B3); 220
Albuquerque, (C3).11,020 Casaus, (D3) 200	Cuchilla (Bs)	Gardiner (E2) 070	Lakewood (F6) 250	Monero, (C2) 180	Danahar of There	Sherman, (B6) 100
Alcalde, (D2) 300 Catskill, (E2) 640	Cuerno (E2) 100	Cibeon (A2) 400	Lakewood, (Ed) 250	Monticello (DE) 400	Manches of Taos,	Silver City, (A6) 3,217
Algodones, (C3) 280 Cedarhill, (B2) 180	Dawson (E3)	Cile (A6) 250	Lanua, (D3) 250	Montage (E2)	D-1	Socorro, (C4) 1,560
Alma, (A5) 130 Central, (A6) 510	Dawson, (E2) 100	Clarwood (A5) 100	I a Mesa, (Co) 300	More (D2) 1 400	Raton, (E2) 4,539	Springer, (E2) 550
Anthony, (C6) 250 Cerrillos, (C3) 110	Dayton, (E0) 200	Clamete (D2)	Lamber (A2)	Mountain Park (D6) 220	Red River, (DZ) 210	Steeplerock, (A6) 100
Anton Chico, (E3) 850 Cerro, (D2) 500	Den Meiner (F2) 200	Colden (C2) 220	Ingra (R2) 450	Mara Vice (E7) 200	Redrock, (A0)	Steins, (A0) 150
Arroyohondo, (D2) 490 Chacon, (D2) 200	Des Moines, (F2) 200	Conden (Cd)	Tango, (D2) 430	Mana (DE) 470	Ricardo, (£4) 150	Tajique, (C4) 320
Arroyo Seco, (D2) 400 Chama, (C2) 300	Dexter, (E3) 242	Curdolumita (D2) 700	Lascruces, (Co) 5,030	Nogai, (D3) 1/0	Rincon, (Co) 280	Taos, (D2)1,400
Artesia, (E6)	Domingo, (C3) 100	Cuillen (Dz) 500	Tas Vanna (D2) 2170	Oceta (F2)	Rosedale, (B5) 150	Tecolote, (D3) 510
Atrisco, (C3) 540 Chamisal, (D2) 150	Dona Ana. (Co) /30	Cuinos (D3)	Las vegas, (D3) 3,179	Old Albumanana (C3) 750	Roswell, (E5) 0,1/2	Texico, (F4) 409
Aurora, (D2) 100 Chamita, (D2) 410	Dorsey, (E2) 220	Unique, (D2)	L'ibortes (%2)	Old Albuquerque,(C3) 750	Roy, (E3) 400	Tierra Amarilla, (C2). 850
Aztec, (A2) 509 Chaperito, (E3) 380	Duran, (D4) 150	Hagerman, (E5) 449	Liberty, (A2) 230	Organ, (Co) 200	Kuidoso, (DS) 350	Tome, (C4)1,000
Baldy, (D2) 120 Charlotte, (F4) 150	East Las Vegas, (E3) 3,755	Hatcu, (B0) 100	Lincoln, (D3) 1,100	Orogrande, (Do), 400	Sabinal, (C4) 320	Torreon, (C4) 100
Bayard, (A6) 200 Chilili, (C4) 400	Elida, (F5)	Heaton, (A3)	Lobo, (D2) 100	Pajanto, (C3) 390	San Acacia, (B4) 460	Truchas, (D2) 100
Belen, (C4) 680 Chimayo, (D3) 320	Elizabethtown, (D2) 580	Hillsboro, (Bo) 1,000	Logab, (F3)	Paraje, (B5) 290	San Antonio, (C4) 370	Tucumcari, (F3) 2,526
Bent, (D5) 300 Cimarron, (E2) 940	El Kito, (C2) 050	Hodges, (D2)	Lordsburg, (A0) 1,000	Parkview, (C2) 820	San Antonio, (C5) 650	Tularosa, (C5) 760
Bernalillo, (C3) 770 Clarkville, (A3) 250	Endec, (F3) 290	Hope, (E0) 41/	Los Lunas, (C4) 400	Pecos, (D3) 540	Sandoval, (C3) 620	Tyrone, (A6) 250
Beulah, (D3) 200 Clayton, (F2) 970	Espanoia, (C3) 550	Humburt, (D3) 100	Lucero, (D2) 200	Penanianca, (C3) 100	San Jose, (D3) 610	Valencia, (C4) 460
Bibo, (B3)	Estancia, (D4) 517	Tideronzo, (C3) 100	Lumberton, (C2) 4/0	Penasco, (D2) 890	San Juan, (C4) 400	Vallecitos, (C2) 620
Bland, (C3) 620 Cloudcroft, (D6) 250	Fairview, (B5) 240	Isidore, (E3) 200	Luna, (A5) 200	Peraita, (34) 570	San Lorenzo, (B6) 330	Variadero, (E3) 300
Bloomfield, (B2) 250 Clovis, (F4) 3,255	Farmington, (A2) 185	Isleta, (C4)1,000	Madrid, (C3) 430	Petaca, (112) 350	San Marcial, (B5). 1,000	Wagonmound, (E3). 900
Blossburg, (E2) 190 Cochiti, (C3) 300	Fierro, (Ao)	Jaraies, (C4)	Magdalena, (B4) 900	Picacho, (E5) 390	San Mateo, (B3) 330	Watrous, (E3) 250
Bonito, (D5) 300 Colmor, (E2) 240	Floravista, (B2) 240	Jemes, (C3) 323	Manzano, (C4) 050	Pines, (C3) 150	San Pedro, (C3) 460	Weed, (D6)520
Brice, (C6) 100 Colorado, (B6) 750		Jemez Springs, (C3) 200	Maxwell, (E2) 270	Pinos Aitos, (A6) 1,100	San Kalael, (A3) 700	Whiteoaks, (D5) 300
Buckman, (C3) 200 Cooks, (B6) 510		Jicarilla, (D5) 130	Maynii, (D6) 290	Placitas, (C3) 200	Santa Cruz, (1)3) 680	Willard, (D4) 150
Canjilon, (C2) 100 Cooney, (A5) 200	Fort Stanton, (D5). 200	Keny, (194) 020	Wietrose, (F4) 1,000	Pojuaque, (D3) 800	SANTA FE, (C3), 5,072	Zuni, (A3) 1,300

Canjilon, (C2) 100	Cooney, (A3) 200	Fort Stanton, (D3). 200	Keny, (D4) 020	Wenose, (14)1,000	Fojuaque, (13) 800	SANTA FE, (C3), 5,072	Zuni, (A3) 1,300
			NEW	YORK			
	•		1915 STATE CE	NSUS FIGURES			
Acidalia, (K13) . 130 Acra, (M11) . 110 Adams, (H5) 1,571 Adams Basio, (E8) 270 Adams Center, (H5) 650 Addison, (F12) 1,754 Adrian, (E11) . 500 Afton, (J12) 754 Akron, (C8) 1,856 Alabama, (D8) 1,856 Alabama, (D8) 300 ALBANY, (N10) 107,979 Albion, (B1)	Altamont, (M10). 805 Altay, (F11). 200 Altmar, (H6). 390 Alton, (G8). 350 Altona, (N1). 500 Alvord, (M7). 130 Amagansett, (R17) 600 Amawalk, (N15). 200 Ambay Center, (J7) 100 Amenia, (N13). 1,200 Amenia Union, (N13). 100 Amenia Union, (N13). 100 Ames, (L9). 160 Amityville, (O18). 2,780 Amsterdam, (M9) 34,319 Ancram, (N12). 350 Andes, (L12). 405 Andover, (E12). 1,154 Angelica, (D11). 1,138 Angola, (B10). 1,194 Annandale, (N12). 130 Antwerp, (J4). 1,057 Apalachiu, (H12). 400 Appleton, (C7). 200 Apulia Station, (H9) 160 Aquebogue, (P17). 320 Aquetuck, (N11). 250 Arcade, (D10). 1,568 Arden, (M15). 200 Ardsley, (N16). 442	Arlington, (N14). 750 Armouk, (N16). 270 Armor, (C10). 110 Ashlord, (C11). 300 Ashland, (M11). 780 Ashokan, (M13). 150 Ashville, (B12). 400 Ashwood, (D7). 100 Assembly Park, (H10)	Bacon Hill, (N8) 200 Bainbridge, (K11) 1,201 Baiting Hollow, (P17) 250 Baldwin, (N18) 3,000 Baldwinsville, (H8) 3,220 Ballston Lake, (N9) 200 Ballston Spa. (N8) 4,344 Bangall, (N13) 150 Bangor, (M1) 600 Banksville, (N16) 150 Bardonia, (M16) 100 Barker, (C7) 550 Bardersville, (N8) 100 Barker, (C7) 550 Bardersville, (M8) 100 Barnard, (E8) 150 Barnersville, (M10) 100 Barnes, (G11) 130 Barnes Corners, (J5) 200 Barre Center, (D8) 200 Barrytown, (N13) 400 Barrytown, (N13) 400 Bartytile, (L15) 300 Bartlett, (K8) 150 Barton, (H12) 200 Batavia, (D9) 13,278 Batchellerville, (M8) 150 Barton, (H12) 200 Batavia, (D9) 13,278 Batchellerville, (M8) 150 Barton, (H12) 200 Batavia, (D9) 13,278 Batchellerville, (M8) 150 Baypont, (O17) 740 Bay Shore, (O18) 3400 Bayville, (N17) 500 Beacon, (N15) 10,165	Beaver Falls, (K5) 800 Bedford, (N16) 300 Bedford Hills, (N16) 600 Beekman, (N14) 250 Beekmantown, (N1) 155 Beekmantown, (N1) 155 Beefston, (K12) 150 Belden, (J12) 100 Belfast, (D11) 900 Belfort, (K5) 100 Belgium, (H8) 180 Belle Isle, (H8) 330 Belleville, (H5) 280 Belleville, (H5) 280 Belleville, (H5) 280 Belleville, (H5) 280 Belleville, (H5) 350 Belleville, (M15) 350 Bellona, (F10) 250 Bellport, (P17) 499 Bellvale, (M15) 350 Belmont, (D12) 1,031 Belmont Center, (M1) 300 Bemus Point, (B12) 100 Bemus Point, (B12) 170 Bennettsville, (K12) 130 Bennington, (D9) 300 Benson Mines, (I.4) 90 Benton Center, (F10) 140 Bertsofte, (E8) 639 Bergholtz, (C8) 190 Bersholtz, (C8) 190 Bertshire, (H11) 500 Berlin, (O10) 700 Berne, (M10) 350	Bethel, (L14) 300 Bidwell, (F8) 200 Bigwell, (F8) 200 Big Flats, (G12) 700 Big Islats, (G12) 700 Big Islats, (G12) 700 Big Indian, (M12) 130 Bigtree, (C9) 210 Binghamfon, (J12) 53,668 Binnewater, (M13) 400 Bisbpp Street, (H5) 140 Biackbrook, (N53) 200 Black Creek, (D11) 130 Black River, (J5) 857 Blaine, (L9) 100 Blasdell, (C9) 849 Blauvelt, (N16) 350 Bleecker, (M8) 530 Bleecker, (M8) 530 Bliss, (D10) 400 Blodgett Mills, (H10) 150 Bloomingburg, (M14) 500 Bloomingburg, (M14) 500 Blooming Grove, (M15) 120 Bloomington, (M13) 400 Bloomington, (M13) 400 Bloomington, (M13) 400 Bloomington, (M13) 400 Bloomington, (M13) 50 Blossom, (C9) 150 Blossom, (C9) 150 Blossvale, (J7) 120 Blue Mountain Lake, (M5) 150 Blue Point, (O17) 500 Bohemia, (O17) 500 Bolivar, (D12) 1,260	(N6). 400 Bombay. (L1). 350 Boomertown, (B12) 100 Boonville, (K7). 1,909 Boquet, (O3). 250 Border City, (G9). 200 Boston, (C10). 500 Bouckville, (J9). 250 Bovina Center, (L11). 190 Bowens Corners, (H7). 190 Bowmansville, (C9) 300 Bradford, (F11). 300 Brainard, (N11). 200 Brainard, (N11). 200 Brainard Sta., (N10) 130 Brainardsville, (M1) 200 Brancher Falls, (L1) Brasher Falls, (L1) Brasher From Works, (L1). 500 Breakabeen, (M10) 200 Breesport, (G12). 500 Brentwood, (O17). 800 Brentwood, (O17). 800 Brewster, (N15). 1,402 Briarrieff Manor,	Brightwaters, (O18) 150 Bristol, (F9) 150 Bristol Center, (F9) 150 Broadalbin, (M8) 80 Brockport, (E8) 3,368 Brocton, (B11) 1,292 Bronxville, (M17) 2,240 Brookdale, (L1) 100 Brookfeld, (K9) 400 Brook Haven, (P17) 350 Brooklyn, (M18) 1,798,513 Brookton, (H11) 300 Brookview, (N10) 200 Broome Center, (M11) 150 Brown Station, (M13) 150 Brown Station, (M13) 150 Brownville, (J4) 855 Brushton, (M1) 660 Buchanan, (M15) 300 Bucksbridge, (K2) 100 Buffalo, ((C9) 454,630 Bullville, (M14) 100 Bundys, (H7) 190 Burden, (N12) 100 Burden, (N12) 100 Burden, (M11) 375 Burke, (M1) 300 Burlingham, (M14) 200

					0		
Burnhams, (B11) 10 Burnt Hills, (N9) 18 Burrs Mills, (J5) 13	0 Cheviot, (N12) 140	Crugers, (N16) 210 Crystal Run, (M15) 150 Crystal Spring (F11) 150	East Shelby, (D8) 150 E. Springfield, (L9) 200 East Steinben, (K7) 100 E. Syracuse, (H8) 3,839 Eastview, (N16) 150 E. Williamsou, (F7) 100 E. Williston, (N17) 100 East Wilson, (C8) 150 E. Wildham, (M1 150	Frankfort, (K8)4,213 Franklin, (K11) 441	Halfmoon, (N9) 150	Hunt, (E10) 140 Hunter, (M12) 405	La Salle, (C8)2,402 Lassellsville, (L8)300
Burt, (C7) 10 Burtonsville, (M9) 13 Bushnellsville,	n Chili (FR) 100	Cuba, (D12)1,645 Cuddebackville,	E. Syracuse, (H8). 3,839 Eastview, (N16) 150 E. Williamson (F7) 100	(K8)	Hall, (F9). 330 Hallsport, (E12). 100 Hallsville, (L9). 110 Halsey Valley, (H12). 300 Hamburg, (C10). 2,744 Hamden, (L12). 380 Hamilton, (J9). 1,586 Hamlet, (B11). 200 Hamlin, (E7). 350 Hammond, (J3). 418 Hammond, (J3). 418	(M10)	Lawrence, (N18)1,870 Lawrenceville, (L1) 300
(M12)	O Chittenango Falls.	Cutchogue, (P16) 850 Cuyler, (J10) 130 Cuylerville, (E9) 250	E. Williston, (N17) 100 East Wilson, (C8) 150	Fredonia, (B11)5,328 Freehold, (M11) 240	(H12)300 Hamburg, (C10)2,744	(017) 200 Hunts Corners,	Lebanon, (J9) 180 Lebanon Springs,
(O9)	0 Chittenango Station, 0 (J8)	Dahlia, (L13) 200	Eastwood, (H8) 777	Freeport, (N18)7,463	Hamilton, (J9)1,586 Hamlet, (B11) 200	(H11)	(O11)
Byron, (D8)	O Churchville, (E8) 583 O Churubusco, (N1) 120	Damascus, (J12) 200 Danby, (H11) 100	Ebenezer, (C9) 500 Eddyville, (C11) 220	Freeville, (H10) 337 Fremont Center,	Hammond, (J3) 418 Hammondsport,	Hyde Park, (N13) 700 Hyde Park, (L10) 100	Leeds, (N11) 300 LeFever Falls, (M13) 300
Cadyville, (N2) 10 Cairo, (M11) 80 Calcium, (J4) 11	0 Cicero, (H8) 400 0 Cincinnatus, (J10) 400 0 Circleville, (M14) 120	Dannemora, (N2) 869 Dansville, (E10)3,975 Darien, (D9) 200 Darien Center, (D9) 200	Exton (19)	(K13)	(F11)1,560 Hampton, (O6)680 Hancock, (K13)1,356	(H11)	(M13)
Caldwell, (N7) 65 Caledonia, (E9)1,24 Callicoon, (K13) 80	0 Cicero, (ft8)	Darien Center, (D9) 200 Davenport, (L11) 400 Davenport Center,	Edinburg, (M8) 300 Edmeston (K10) 800	Friendship, (D12)1,199 Frontier (N1) 120	Hannawa Falls, (L2) 300 Hannibal (G7) 432	Indian Fields, (N11) 160	Leonardsville (Kg) 350
Calverton, (P17)., 21	0 Clarkson (F8) 300	(L11)	Edwards, (K3) 504 Edwardsville, (J2) 110 Eggertsville, (C9) 300	Fruit Valley, (G7) 100 Fullerville 1ron Works, (K4) 130	Hannibal Center, (G7)	Indian Lake, (M5) 300 Ingham Mills, (L8) 100 Ingleside, (F10) 130 Inlet, (L6) 170 Interlaken, (G10) 663	Levant, (B12) 700
Cambridge, (O8)1,72 Camden, (J7)2,18 Cameron, (F12) 50	0 Clark Mills, (Ks) 000 Clarkson, (E8) 300 7 Clarksville, (N10) 400 1 Claryville, (L13) 130 0 Claverack, (N12) 400 0 Claverbouse, (E7) 400 0 Clayburg, (N2) 150 Clayton, (H4) 1,879 0 Clayville, (K9) 972 0 Clepmons (O6) 320	Deansboro, (K9) 250 Debruce, (L13) 250 Described (K8) 760	Egypt, (F8) 300 Elba, (D8) 439 Elbridge (H8) 475	Fulton, (H7)11,138 Fulton Chain, (K6) 200 Fultonham (M10) 150	(G7)	Interlaken, (G10). 663 Inwood, (N18). 2,000 Ionia, (F9). 210	Lewbeach, (L13) 100 Lewis, (N3) 200 Lewiston, (B8) 741
Campbell, (F12) 50	0 Claverbouse, (E7) 400 0 Clayburg, (N2) 150 Clayton (H4) 1879	Deer Park, (017) 155	Eldred, (L14) 150 Elizabethtown, (N4) 530 Elizaville (N12)	Fultonville, (M9) 955 Gabriels, (M3) 220	Harpursville, (J12) 450 Harriman, (M15). 854 Harris, (L14). 100 Harris Hill, (C9). 100 Harrison, (N17). 1,500	Ira, (G8). 200 Irona, (N1). 200 Irondequoit, (E8). 200	Lexington, (M12). 300 Liberty, (L13). 2,395 Lilly Dale, (B11). 250 Lima, (E9). 922
(M15)	O Clayville, (K9) 972 O Clemons, (O6) 320 Clermont, (N12) 120	Deferiet, (J4)	Elkbrook, (K13) 200 Elk Creek, (L10) 100	Gainesville, (D10) 340 Galluville, (M10) 260	Harrison, (N17)1,500 Harrisville, (K4) 991		Lima, (E9) 922 Lime Lake, (D11) 150 Limerick, (H4) 130
Canandaigua, (F9) 7,50 Canaseraga, (E11) 66 Canastota, (J8)3,84	Cleredand, (J8) 660 8 Clifton, (E8) 250	Dekalb Junc., (K2) 450 De Lancey, (L12) 200	Ellenburg Center, (N1)	Ganahgote, (M14) 100 Gansevoort, (N8) 200	Hartford, (O7) 700 Hartland, (C8) 350	Irving, (B10). 300 Irvingtou, (N16). 2,370 Ischua, (D12). 250 Islip, (O18). 2,300 Italy, (F10). 100 Italyhill, (F10). 170 Italyhill, (F10). 170	Limestone, (C12) 463 Lincklaen, (J10) 250 Lincklaen Center,
Canastota, (18)	9 Clifton Springs, (F9)1,664	Delevan, (D11) 557 Delhi, (L11)1,743	(N1)	Garden City, (N18) 580 Gardenville, (C9) 700	Harrisville, (K4). 991 Harriower, (M9). 250 Hartlord, (O7). 700 Hartland, (C8). 350 Hart Lot, (H8). 300 Hartman, (N7). 100 Hartsdale, (N16). 700 Hartwick, (K10). 600	Italy, (F10)	Lincold Park, (E.S) Zuu
Cannonsville, (K12) 30 Canoga, (G9) 15	Clinton, (K8)1,264 Clinton Corners, (N13)320	Dellwood, (C9) 120 Delmar, (N10) 400 Delphi Falls, (J9) 230	Ellicottville, (C11) 881 Ellington, (B12) 500 Ellisburg, (H6) 316	Gardiner, (M14) 350 Garfield, (O10) 400 Garnerville, (M16) 1,300	Hartwick, (K10) 600 Hartwick Seminary, (L10) 100	Tackson Corners	Linden, (D9) 160 Lindenhurst, (O18) 1,800 Lindley (F12) 270
Canoga, (G9) 15 Canton, (K2) 2,62 Cape Vincent, (H4) 1,10 Capron, (K8) 60	Clintondale, (M14) 1,000 Clinton Hollow, (N13)	Deansboro, (K9) 250 Debruce, (L13) 250 Debruce, (L13) 250 Deerfield, (K8) 760 Deerhead, (N3) 300 Deer Park, (O17) 155 Deer River, (J5) 200 Deleriet, (J4) 800 Dekarba Junc, (K2) 450 Dekalb Junc, (K2) 450 De Lancey, (L12) 200 Delanson, (M10) 450 Delevan, (D11) 557 Delhi, (L11) 1,743 Delwood, (C9) 120 Delmar, (N10) 400 Delphi Falls, (J9) 230 Delta, (K7) 120 Demster, (H6) 500 Denmark, (J5) 100	Elma, (C9) 250 Elmira, (G12)40,073 Elmira Heights,	Garrattsville, (K10) 230 Garrison, (N15) 500 Gasport, (C8) 380	Harvard, (K12) 100 Hasbrouck, (L13) 120 Haskinville, (E11) 130 Hastings, (H7) 300	(N12)	Lialithgo, (N12) 200 Liawood, (E9) 165 Lisbon, (K2) 150
Cardiff, (H9) 10 Carlisle, (M10) 30 Carman, (N9) 45	O Cliptonville, (N3) 260 O Clockville, (J8) 180 O Clove, (N14) 130	Depauville, (H4) 350 Depew, (C9)4,932 De Peyster, (K2) 100	(G12)3,154 Elmont, (N18) 150 Elmsford, (N16)1,380	Gates, (E8) 100 Geneseo, (E9)2,253 Geneva, (F9)13,232	Hastings, (H7) 300 Hastings on Hudson,	Tasper (F12) 400	Lisle, (H11) 347 Little Falls, (L8)13,022 Little Genesee, (D12) 250
		Deposit, (K12)1,026 Derby, (C10)250 Derrick (L3)350	Elnora, (N9) 180 Elton Station, (D11) 100 Emerick (N9) 500	Genoa, (G10) 450 Georgetown, (J9) 900 Germantown (N12) 800	Hastings on Hudson, (N17)5,461 Hauppauge, (O17) 200 Haven, (L14) 100	Java, (D10) 100 Java Center, (D10) 150 Java Village, (D10) 150	Little Valley, (C12) 1,307
Caroline Cepter, (H11)	Cobleskill, (M10)2,362 Cochecton, (K14) 190	Demster, (H6) 500 Denmark, (J5) 100 Depauville, (H4) 350 Depcw, (C9) 4,932 De Peyster, (K2) 100 Deposit, (K12) 1,026 Derby, (C10) 250 Derrick, (L3) 350 De Ruyter, (J9) 604 Devereaux, (C11) 100 De Witt, (H8) 150	Emeryville, (K3) 200 Eminence, (L10) 170	Gerry, (B12) 200 Getzville, (C8) 500 Gebent (N11)	Hawkeye, (N2) 100 Hawkinsville, (K7) 300	Jay, (N3)	Livingston, (N12) 250 Livingston Manor,
(H11) 10 Carrollton, (C12) 20	(L14)	Dewittville, (B12) 150 Dexter, (H4)1,145	Edwards, (K3) 504 Edwardsville, (J2) 10 Edgertsville, (C9) 10 Eggertsville, (C9) 300 Egypt, (F8) 300 Egypt, (F8) 300 Elba, (D8) 439 Elbridge, (H8) 475 Eldred, (L14) 150 Elizabethtown, (N4) 530 Elizabethtown, (N1) 150 Elizabethtown, (N1) 100 Ellenburg Center, (N1) 500 Ellenburg Center, (N1) 250 Ellenburg Depot, (N1) 250 Ellenburg Depot, (N1) 250 Ellenburg Depot, (N1) 811 Ellenburg, (H4) 3,073 Ellicottville, (C11) 881 Ellington, (B12) 500 Ellisburg, (H6) 316 Elma, (C9) 250 Elmira, (G12) 40,073 Elmira Heights, (G12) 40,073 Elmira Heights, (G12) 3,154 Elmont, (N18) 150 Elmsford, (N16) 1,380 Elton Station, (D11) 100 Emerick, (N9) 180 Elton Station, (D11) 100 Emerick, (N9) 500 Emeryville, (K3) 200 Emience, (L10) 170 Emmonsburg, (L8) 100 Empire, (N11) 200 Empire, (N11) 200 Emfield Center, (G11) 220	Gibson, (F12) 280 Gilbert, Mills, (H7) 100	Hayt Corners, (G10) 130 Hazel, (L13) 100	Jetterson Valley, (N15)	Livingstonville, (M11)300
Cascade Valley,	(N11)	Dickinson (L2) 100 Dickinson Center,	Enheid Center, (G11)	Gilboa, (M11) 400 Gile, (L2) 200	Hecla Works, (K8) 300 Hector, (G10) 150	Jericho, (N17) 450 Jewett, (M11) 220	Livonia, (E9) 857 Livonia Center, (E9) 200 Lobdell, (N2) 250 Loch Muller, (N5) 100
Cassville, (K9) 20 Castile, (D10) 96	Cold Brook, (K8). 274 Colden, (C10) 400	Disco, (N2) 110 Dobbs Ferry,	Erieville, (19) 250 Erin, (G12) 250 Erwins, (F12) 250	Glasco, (N12)1,600 Glen, (M9)350 Glenburnie, (O5)100	Hedgesville, (F12) 130 Helena, (L1) 150 Hemlock, (E9), 300	Jewettville, (C10) 300 Johnsburg, (N6) 350 Johnson, (M15) 200	Loch Muller, (N5) 100 Loch Sheldrake, (L13) 100 Lock Berlin, (G8) 110
Castle Creek, (J12) 20 Castleton, (N10)1,58 Castorland, (J5) 30	Cold Spring, (N15) 2,549 Cold Spring Harbor, (N17)750	(N16) 4,030 Dolgeville, (L8) 3,326 Dorloo, (L10) 200	Esopus, (N13) 250 Esperance, (M9) 241 Essex, (O3) 500	Glenco Mills, (N12) 100 Glen Cove, (N17)5,000 Glenfield, (K6) 180	Hempstead, (N18) 6,073 Henderson, (H5) 380 Henderson Harbor,	Johnson City, (J12) 5,400 Johnson Creek, (C8) 200	Lockwood (G12) 100
Catatonk, (H12) 20 Catharine, (G11) 10 Cato, (G8) 39	O Cold Water, (E8) 200 Colliersville, (K10) 100 Collins, (C10) 200	Dormansville, (N10) 100 Dover Plains, (N14) 800 Downsville, (L12) 550	Etna, (H11) 380 Euclid, (H8) 200 Evans (B10) 200	Glenham, (N14) 800 Glen Head, (N17) 150 Glenmont. (N10) 150	(H5)	Johnson City, (J12) 5,400 Johnson City, (J12) 5,400 Johnson Creek, (C8) 200 Johnsonville, (O9) 550 Johnstown, (M8) 10,688 Jonespoint, (N15) 180 Jonesville, (N9) 150	Locust Valley, (N17) 450 Lodi, (G10) 480 Lodi Center, (G10) 100
Caton, (F12) 200 Catskill, (N12)5,37 Cattaraugus, (C11) 1,270	Collins Center, (C11)350 Collinsville, (K6)100	Dresden, (G10) 326 Dresden Sta., (O6). 250 Dresserville. (H10) 150	Evans Mills, (J4) 450 Fabius, (J9) 340 Fairfield (L8) 250	Glenora, (G11) 100 Glenpark, (J5) 650 Glens Falls, (N7) 16.323	Herkimer, (L8)9,580 Hermitage, (D10) 200 Hermon (K3)607	Jonesville, (N9) 150 Jordan, (H8)1,063 Jordanville, (L9) 250	Logan, (G11) 100 Long Beach, (N18) 662 Long Eddy, (K13) 700
Caughdenoy, (H7) 250 Cayuga, (G9) 373 Cayuta (G11) 100	O Clove Valley, (N14) 130 Clyde, (G8)	Drybrook, (L12) 120 Dryden, (H11) 722 Duane (M2) 370	Fair Haven, (G7) 624 Fairport, (F8)3,553 Fairwille (F8)3,80	Glen Spey, (L15) 100 Glenville, (M9) 250 Glen Wild (L14) 160	Herring, (J4) 150 Heuvelton, (K2) 556 Heuvitvilla (K2) 260	Joy, (F8)	Long Lake (MS) 400
Cayutaville, (G11) 110 Cazenovia, (J9)1,928	(N11)	Duanesburg, (M9) 200 Dundee, (G10)1,236	Falconer, (B12)2,342 Fallsburg, (L14) 100	Glenwood, (C10) 120 Glenwood Landing,	Hewlett, (N18) 510 Hicks, (G12)	Kalurah, (K4) 100 Kanona, (F11) 200	Lordville, (K13) 200 Lorraine, (J5) 300 Loudonville, (N10) 500
Cedarhurst, (N18) 2,657 Cedarvale, (H9) 200 Cedarville, (K9) 150	Comstock, (O7) 150 Copcord, (C10) 150	Durraven, (L12) 100 Durham, (M11) 280	Farmersville Station, (D11) 200 Farmingdale, (O18) 1,856	Gloversville, (M8) 21,178 Goldenbridge, (M15) 150	Higginsville, (J8) 100 High Falls, (M13) 700	Kasoag, (J7) 130 Katonah, (N15)1,500 Katsbaan, (N12) 130	Louisville, (K1) 350 Louisvelle, (K1) 350 Louisberry, (H12) 150 Lowell, (J8) 150
Cementon, (N12) 600	Conesus, (E10) 500 Conesville, (M11) 730 Conewango, (B12) 200 Conewango Valley,	Durham, (M17) 280 Durhamville, (J8) 800 Dutchess Junc., (N15) 500 Dykemaus, (N15) 130 Eagle, (D10) 160 Eagle Bridge, (O9) 300	Farmington, (F8) 130 Farnham. (B10) 636	Gorham, (F9) 300 Goshen, (M15)3,511	Highland Falls, (M15)2,518	Kattelville, (J12) 100 Keene, (N4) 200 Keene Valley, (N4) 420 Keeseville, (N2) 798 Kelloggsville, (H9) 100	Lowell, (18)
Center Berlin, (O10) 100 Center Brunswick, (N9) 130	(B12)	Eagle Bridge, (O9) 300 Eagle Harbor, (D8) 320	Faunt, (M4) 300 Faunt, (M12) 100 Faunte (C9) 250	Gouverneur, (K3)4,164 Gowanda (C11) 2 524	(M15) 500	Keeseville, (N2) 798 Kelloggsville, (H9) 100 Kelsey, (K12) 100 Kendall, (D7) 400	Ludingtonville, (N14) 140 Ludlowville, (G10) 260
Center Cambridge, (O9)	Connelly, (N13) 800 Conquest, (G8) 100	Earlyille, (110) 845	Fayetteville, (J8)1,779 Felts Mills, (J4) 400 Fentonville, (B12) 100 Ferndale, (L13) 150	Grafton, (O9) 500 Grahamsville, (L13) 300 Granby Center, (H7) 100 Grand Gorge, (L11) 250	Hillburg (M16) I 017	Kendall Mills (U7) 330	Luzerne, (N7) 900 Lycoming, (H6) 200 Lynbrook, (N18) 3,055
Center Moricbes, (P17)1,000 Centerport, (O17) 490 Center Village,	Constable, (M1) 200	East Aurora (CQ) 4 025	Feura Bush. (N10) 250	Grandview (N16) 335	Histon, (E/) 81/ History (C10) 310	Kenmore, (C9)1,700 Kennedy, (B12) 600 Kenoza Lake, (L14) 120 Kensico, (N16) 130	Lyndonville, (D7) 832 Lyons, (F8)4,742 Lyonsdale, (K6) 150
(J12)	Cooley ([13) . 100	East Beekmantown, (O1)				Kenwood, (J8) 600 Kenyonville, (D7) 100 Kerhonkson, (M13) 350	Lyons Falls, (K6) 863 Lysander, (H8) 250 McClure's Settle-
Centerville Station, (L14) 900 Central Bridge	Cooperstown (I.10) 2 634	East Bethany, (D9) 200 E. Bloomfield, (F9) 700 East Branch, (K13) 300 E. Chatham, (N11) 200	Firthcliffe, (M15) 300 Fishers, (F8) 200 Fishers Island,	Grant, (K7) 100 Grant, (K7) 100 Granville, (O7)3,890 Grapeville, (N11) 250 Grassy Point, (M16) 700 Gravesville, (K8) 170 Grav (47) 100	Hinsdale, (D12) 200 Hoag Corners, (N10) 260	Kiamesha, (L14) 100 Killawog, (H11) 340	ment, (K12) 100 McConnellsville, (J7) 200
(M10)	tion, (L11) 450	E. Chatham, (N11) 200 E. Cobleskill, (M10) 100 E. Durham, (M11) 250 East Eden, (C10) 110	(S15)	Gray (L7)	Hoffmans, (M9) 130 Hoffmeister, (L7) 170 Hogansburg (11) 340	Kinderhook, (N11) 827 King Ferry, (G10) 320 Kingshury (N7) 160	McDonough, (J11) 300 McGraw, (H10) 887 McKeever, (K6) 130 McLean, (H10) 400
Central Park, (N18) 530 Central Square, (H7) 481 Central Valley,	Copake, (N12) 200 Copake Falls, (N12) 300 Copenhagen (I5) 605	East Elma, (C9) 100 East Florence, (I7) 200	(N14) 3,902 Fishkill Plains, (N14) 170 Fishs Eddy, (K13) 230	Great Neck Station, (N17)	Holbrook, (O17) 200 Holcomb, (F9) 200 Holland (C10)	Kings Park, (017) 500 Kingston, (M13)26,354 Kirkland (K8) 150	Macedon, (F8)1,147
(M15)	Copenhagen, (J5) 695 Copiague, (O18) 200 Coram, (P17) 160	E. Greenbush, (N10) 160 E. Greenwich, (O8) 150 E. Groveland, (E10) 210 East Guilford, (K11) 150	Five Corners, (G10) 150 Flackville, (K2) 100	Great Valley, (C12) 210 Greece, (E7) 250	Holland Patent, (K8) 339 Holley, (D8)1,780	Kill Buck, (C12) 250 Kinderhook, (N11) 827 King Ferry, (G10) 320 Kingsbury, (N7) 160 Kings Park, (O17) 500 Kingston, (M13)26,354 Kirkland, (K8) 150 Kirkville, (J8) 250 Kirkwood, (J12) 200 Knapp Creek, (C12) 200 Knowlesville, (D8) 320 Knox. (M10) 300	Machas, (C11) 600 Macomb, (J3) 150 Madalin, (N12) 600 Madison, (J9) 317 Madrid, (K2) 920 Madrid Springs, (K2) 250 Madrid Springs, (K2) 250
Chafee, (D10) 200 Champion, (J5) 200	Corfu, (D9) 515 Corinth, (N8)2,415	East Guilford, (K11) 150 E. Hamilton, (K9). 100	Flagg, (N3) 200 Flat Creek, (L9) 130 Fleischmanns, (L12) 200	Greece, (E7)	Holmes, (N14) 100 Holmesville, (K10) 250	Knowlesville, (D8) 320 Knowlesville, (D8) 320 Know, (M10) 300	Madrid, (K2) 920 Madrid Springs, (K2) 250
Champlain, (O1)1,279 Chapin, (F9)300 Chappaqua, (N16) 900 Charleston Four	Cornwall, (M15)2,658		Finit, (19) 100	(1110)	Tioncoye, (Lay) Too	Kortright, (L11) 130 Kripplebush, (M13) 200	Mahopac Falls, (N15)140
Corners, (M9) 110 Charlotte, (E8)2,302	Cornwall on the Hudson, (N15)2,240	East Islip, (017)1,000 East Jewett, (M12) 100 E. Kingston, (M13) 400	Floral Park, (N18) 1,771 Florence, (J7) 250 Florida, (M15) 560 Floyd, (K7) 250	Greenlawn, (O17) 400 Greenport, (R16)3,735 Greenville, (M11) 350	(E9)	Kyserike, (M13) 100 Lackawack, (M13) 150	(N15)
Charlotte Center, (B11)	Cossaviina (O8) 210	East Koy, (D10) 150 East Lansing, (H10) 60 East Marion, (R16) 400	Floyd, (K7) 250 Fluvanna, (B12) 120 Fly Creek, (L10) 250	Greenwich, (O8)2,315 Greenwood, (E12) 500 Greenwood Lake,	Hoosick Falls, (O9) 5,406 Hope, (M7) 100 Hopewell, (F9) 100	Lackawanna, (C9) 15,737 Lacona, (H6) 476 La Fargeville, (H4) 480	(N12)
Charlton, (N9) 100 Chase Mills, (K1) 110 Chateaugay, (M1) 1,196 Chateaugay Lake,	County Line, (D7) 100 Coventry, (J11) 150	E. Meredith, (L11). 300 E. Moriches, (P17) 850 East Nassau, (N10) 200	Forest, (N1)110 Forestburg, (L14)100	(M16)	Hopewell Junction, (N14)	La Fayette, (H9) 100 Lafayetteville, (N13) 100 Lagrangeville, (N14) 200	Malone. (M1)7,404 Maltaville, (N9) 100 Mamaroneck, (N17) 7,290 Manchester, (F9)1,115
Chateaugay Lake, (M1)	Covington, (D9) 100 Cowlesville, (D9) 200 Coxsackie, (N11)2.309	E. Northport, (O17) 300 East Norwich, (N17) 500 Easton, (O8) 200	Forest Home, (H11) 130 Forestport, (K7) 505 Forestville, (B11) 740	Griffin (M7) 100 Griffin Corners, (L12) 400	Horicon, (N6) 300 Hornby, (F12) 140 Hornell, (E11) 14,352	Lake Delaware, (L12) 100 Lake George, (N7) 750 Lake Grove, (O17) 440	Manchester Bridge, (N14) 100 Manhasset, (N17) 1,050
Chatham Center	Croggggggggg (M(14) 100	E. Onondaga, (H9). 400 East Otto, (C11) 300 East Palmyra (F8) 250	Forks, (C9)3,300 Forsyth, (A11)120 Fort Ann. (O7)436	Griffins Mills, (C10) 100 Grooms, (N9) 130 Groton, (H10) 1445	Horseheads, (G12) 1,949 Horton, (K13) 100 Hortonyille. (K13) 100	Lake Huntington, (L14)	Manitou, (N15) 250 Manlius, (J8)1,314 Manlius Center, (J8) 100
(N11)	Crary Mills, (K2) 120 Craryville, (N12) 130 Craterclub (O3)	East Otto, (C11) 300 East Palmyra, (F8) 250 East Park, (N13) . 200 E. Patchogue, (P17) 250 E. Pembroke, (D9) 500 E. Pharsalia, (J10) 120 Fact Pitcairo, (K4) 130	Fort Aun, (O7) 436 Ft. Covington, (M1) 828 Fort Covington Center, (M1) 100	Groveland Station, (E10)	Houghton, (D11), 120 Howard, (E11) 300 Howe Cave (M10) 130	Lakemont, (G10) 150 Lake Placid, (N3)1,977 Lake Pleasant, (M7) 200	Manusville, (H6) 617 Manorkill, (M11) 250 Manorton, (N12) 100
Chazy, (O1)	C 4 (3TO) 200	T D 1 111 (O40) 400	Center, (M1) 100 Fort Edward, (N7) 3,662 Fort Herkimer, (L8) 120 Fort Hunter, (M9) 700	Guilderland Center, (N10)	Howells, (M15) 250 Hubbardsville, (K9)	Lakeport, (J8) 100 Lakeside, (F7) 100 Lake View (C10)	Manorville, (P17) 550 Maplestreet, (C7) 160 Maple View, (H7) 150
Chenango Bridge, (J12)	Croghan, (K5) 659	East Quogue, (P17) 300	Fort Jackson, (L2) 160 Fort Johnson, (M9) 681	Guilford Center, (K11)	Hudson Falls, (N7) 5,585 Hughsouville, (N14) 680	Lakeville, (E9) 480 Lakewood, (B12) 702	Marathon, (H11)1,006 Marcellus, (H9) 991 Marcellus Falls, (H8) 150
Chenango Forks, (J12)	Cross River, (N15) 100 Croton Falls, (N15) 450	E. Poestenkill, (O10) 100 Eastport, (P17). 400 East Quogue, (P17) 300 E. Randolph, (C12) 582 E. Rochester, (E8) 3,471 East Rockaway, (N18)	Fort Miller, (N8)., 300 Fort Montgomery, (M15)	Hadley, (N7) 350 Hagaman, (M9) 952	Honeoye Falls, (E9)	Lancaster, (C9)5,094 Lanesville, (M12)100	Marcy, (K8) 100 Margaretville, (L12) 648 Marjaville, (M9) 170
Cherry Creek, (B11) 720 Cherry Valley, (L9) 762 Cheshire, (F9) 200 Chester, (M15)1,280	(N16)2,243 Crown Point, (O5) 1,900	East Rodman, (J5) 100 E. Schodack, (N10) 200	Fort Miler, (NS). Fort Morgomery, (M15)	Hailesboro, (K3). 180 Haines Falls, (M12) 250	Humphrey Center, (C12)	Lansing, (H7) 200 Lansingville, (G10) 130	Mariaville, (M9) 170 Marietta, (H9) 150 Marilla, (C9) 400 Marino (F8)
Chester, (M15)1,280 Chestertown, (N6) 300	Crown Point Center, (O5) 200	East Schuyler, (K8) 130 East Setauket, (O17) 690	Fowler, (K3) 100 Fowlerville, (E9) 390	Halcottsville, (L12) 120 Hale Eddy, (K12) 200	(N12) 130	Laona, (B11) 150 Larchmont, (N17) 2,060	Marion, (F8) 800 Markhams, (B11) 100

Moreland, (G11)	Section Property Company Com				11122	721 O1 11113 (OMITED OIL	11110	,,	303
Muitzeskill, (N11) 180 North Salem, (N15) 200 Pharsalia, (J10) 140 Resort, (G8) 100 Seely Creek, (G12) 150 Split Rock, (H8) 300 Ulster Park, (Mt3) 120 West Chazy, (O1) 250 Mumlord, (E8) 460 N. Sanford, (K12) 100 Phelps, (F9) 1,375 Result, (N11) 200 Selkirk, (N10) 200 Spragueville, (K13) 200 Unadilla, (K11) 120 West Calesyille, (J12) 100 Munnsyille, (J19) 400 North Scriba, (H7) 100 Philadelphia (J4) 847 Retsal, (F9) 300 Semprophysis, (H10) 100 Spragueville, (N 3) 200 Unadilla, (K11) 120 West Calesyille, (J12) 100	Myers, (C10) 100 N. Stockholm, (L1) 300 Phillipsport, (L14) 150 Rex, (L9) 150 Senera Castle, (F9) 300 Spring Brook, (C9) 200 (K9) 200 W. Conesville, (M11) 100	THE THE THE THE THE THE THE THE THE THE	Marshville, (L9)	Naples, (F10)	(N16)	Phoenicia, (M12)	Rexville, (E12)	Seneca Hill, (H7)	(L9)	Union, (H12) 1,922 Union Center, (H12) 200 Union Center, (H12) 200 Union Grove, (L12) 200 Union Hill, (F8) 100 Union Springss, (G9) 162 Union Valley, (J10) 170 Union Valley, (J10) 170 Union Valley, (J10) 170 Union Valley, (J10) 170 Union Valley, (N16) 500 Upper Lisle, (J11) 100 Upper Nyack, (N16) 642 Upper Red Hook, (N12) 180 Urbata, (F11) 100 Urlton, (N11) 190 Ushers, (N9) 125 Utica, (K8) 80,589 Vail Gate, (M15) 100 Valley, (N16) 100 Valley, (N16) 100 Valley Cottage, (N16) 200 Valley Falls, (N9) 795 Valley Stream, (N18) 2,800 Vallonia Springs, (J12) 150 Valois, (G10) 300 Vandalin, (C12) 110 Van Etten, (G12) 407 Vanhornesville, (L9) 250 Varna, (H11) 200 Varysburg, (D9) 400 Vega, (L11) 100 Venice Center, (G10) 100 Venice Center, (G10) 100 Verice (G10) 100 Verona, (J8) 532 Vernon Center, (J8) 300 Versanles, (C10) 200 Vesper, (H9) 210 Verona, (J8) 300 Versalles, (C10) 200 Vesper, (H9) 210 Verona (J8) 300 Versalles, (C10) 200 Vesper, (H9) 210 Verona, (J8) 300 Versalles, (C10) 200 Vesper, (H9) 210 Verona (J8) 300 Versalles, (C10) 200 Vesper, (H9) 210 Verona (J8) 300 Versalles, (C10) 200 Vestal Center, (H12) 230 Vestal Center, (H12) 230 Vestal Center, (H12) 230 Vestal Center, (H12) 300 Vestal Center, (H12) 300 Vestal Center, (H1) 100 Versalles, (C10) 200 Vesper, (H9) 210 Verona, (J8) 300 Westal Center, (H1) 200 Vestal, (H11) 200 Vesper, (H9) 210 Verona, (J8) 300 Westal Center, (H1) 200 Vestal (H1) 100 Venice Center, (H1) 200 Vestal (H1) 100 Venice Center,

	MDEA OF THE	OMIED STATES	
West Danby, (G11) 300 W. Davenport, (L11) 120 West Eaton, (J9). 503 W. Edmeston, (K9) 220 West Exeter, (K9) 150 West Exeter, (K9) 150 West Falls, (C10). 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Horriet, 300 West Leyden, 300 West Hampton, 300 West Morroe, West Milton, 450 West Morroe, West Morroe, Westmorreland, (P17). 450)	10	Wolcottsburg, (C8) 250 Yaphank, (P17) 570 Wolcottsville, (C8) 800 Yates, (D7) 150 Woodbourge, (L13) 350 Yonkers, (N17) 90,886 Woodbury, (O17) 300 York, (E9) 500 Woodhull, (F12)1,352 Yorkshire, (D10) 300 Woodpre, (N18) 600 Verktowe, (N15) 400
		CAROLINA	
Altamahaw, (G2) 300 Andrewa, (B7) 936 Angier, (H3) 221 Ansonville, (E4) 486 Apalachia, (A7) 100 Apex, (H3) 681 Archdale, (F3) 145 Cleramona, (E2) Arboro, (F3) 145 Cleveland, (D3) Ashboro, (F3) 1,865 Asheville, (E6) 18,762 Atlantic, (N5) 524 Aulander, (L2) 543 Aurora, (M4) 440 Autryville, (H4) 77 Avoca, (M3) 150 Avon, (O4) 400 Ayden, (L4) 990 Aydlett, (O2) 150 Baley, (J3) 195 Bakersville, (A2) 150 Barbarium Springs, (D3) 110 Barilut (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bartlett, (N2) 150 Bee Tree, (E6) 200 Belcross, (N2) 150 Belewood, (B4) 140 Benson, (J4) 800 Crorelius, (D4) Bessermer City, (C4) 1,529 Bethania, (E2) 110 Bethel, (L3) 469 Bessermer City, (C4) 1,529 Bethania, (E2) 110 Bethel, (L3) 469 Creswell, (N3) 18iscoe, (F4) 450 Big Lick, (E4) 162 Bilatk Mountain, (E6) 311 Black Mountain, (E6) 311 Black Mountain, (E6) 311 Black Mountain, (E6) 311 Blatleton, (J6) 350 Banbury, (E2) 350 Banbury, (E2) 350 Banbury, (E2) 261 Bluff, (D6) 140 Curribuek, (N2) Bolton, (J6) 350 Banbury, (E2)	1,442 Elk Park, (B2). 377 Haw River, (G2). 9 33) 1,149 Ellerboro, (B4). 293 Hayswolk, (R7). 4 34,014 Ellerbe, (F4). 100 Haywood, (H3). 1 1 1 1 1 1 1 1 1	Lowell, (C4)	Rutherford College, (B3)

NORTH DAKOTA 1915 STATE CENSUS FIGURES

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Brumfieldville, (K8) 320 Brunnerville, (J9) 500	herry Hill, berry Hill,	(A2) (L7)		150 100	Cornpl: Cornwa
Brush Creek, (A6) 110 Brush Valley, (C7) 250	herry Mills, berry Tree,	(H3 (D7)	140 439	Corry,
Bryansville, (J1t) 120 Bryn Athyn, (L9) 130	herrytree, (berry Valle	В3). 7, (В	5).	100 113	Corsica Cortez, Corydo Coryvil
Bryn Mawr, (L9)3,100 Buckgien, (J6) 200	herry Valley herryville, (y, (A K6)	8) 1,	400 300	Costello
Buckhorn, (H5) 170 Buckingham, (L8) 180	hester, (L10 hester Heigl)) sts,	.38,	537	Conder: Coulter
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Burdine, (A8) 300 C	hilds, (K3) hillisquaque	, (H	5).	100 (160 (Crabtre
Bunola, (19). 300 C Burdine, (A8). 300 C Burgettstown, (A8),1,268 C Burlington, (H2). 142 C Burnside, (D6). 493 C Burnside, (D6). 493 C Burnt Cabins, (F9). 120 C Burnwood, (K2). 120 C Burnwood, (K2). 180 C	hincbilla, (K hoconut, (J2	(4)		320 (250 (Crafton, Craigsvi
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Bursonville, (L7) 180 C	lair, (E3) lairton, (B8)		3,	100 C	reamer
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Butztown, (L7) 200 C	aridge, (B8) arington, (C	4)	2,	200 C	resco, (
Byrnedale, (D4) 600 C. Cabot, (B6) 200 C.	arion, (C5). ark, (A4)		.2,	512 C	resson,
Cains, (K9), 150 C Caledonia, (E4), 260 C	arksburg, (Carks Green.	(K4) 2	200 C	reswell
California, (L8) 120 C California, (B9)2.230 C	arks Summi arksville. (A	t, (K	4)	00 C	rosby,
Callensburg, (B5) 198 Cl Callery, (A7) 235 Cl	arksville, (A	4)	2	16 C	ross Fo
Calumet, (B9) 500 Cl Camargo, (I10) 180 Cl	hester, (L10) hester Heigil (L10) hester Heigil (L10) hester Hill, hester Valle hest Springs heswick, (B hewtoa, (A6 hewtoa, (A6 hewtoa, (A6 hids, (K3). hlickies, (J9) hilds, (K3). hlilisquade hincbilla, (K hoconut, (J2 hristiaoa, (J hurchtown, hurchville, (ircleville, (B8) alair, (E8). lairton, (B8) arendon, (C laridge, (B8) arendon, (C laridge, (B8) arington, (C5). arksburg, ((arks Green, arks Summi arksville, (A aussville, (K aussville, (Ka ausville, (Ka ausv	8).		10 C	crensba cresco, (cressma cresson, cresswell crooked cross Cr cross Fo cross Ro cross Ro cross Ro crossca crothers
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Clearville, (E10) 150	Cumbola, (J7) 7
urtin, (H7) 100 Hermont, (E3) 300	Cumbola, (J7) 7. Curllsville, (C5) 2. Curry Run, (D6) 2. Curwensville,
leversburg, (G9) 130 lifford, (K3) 200	_ (1/3)
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limax, (C5) 150	Cynwyd, (Lyl., and 15
linton, (L3)250	Cynwyd, (L9)
lintonville, (B5) 335 loe, (D6)	Daisytown, (D8) 38 Daisytown, (R9)
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palridge, (K4) 200 1	Darby, (L10)6,30
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ogan Station, (G4). 200 I	Deegao, (B5)
keburg, (A9)1,302 I	Delahole (L6) 330
lebrook, (J9) 140 I degrove, (E3) 100 I	De Lancey, (D6) 200 Delano, (J6) 100 Delaware Water Gap,
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llomsville, (G5) 170 I	Dents Run, (E4) 400
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lumbia Cross E Roads, (H2). 200 E	Perry, (C8)2,954
lumbus. (B2) 346 lwyn, (L10)1,584 D	(H8)
ocord, (F9) 170 D acordville, (K10). 400 D	Devon, (L9) 300 Dewart, (H5) 250
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nifer, (C5) 300 D	Dickinson, (G9) 800
nneautville, (A2). 867 D	(L6) 44(belmont, (B8) 50(belmont, (B8) 50(belmont, (B8) 50(belta, (J11) 881) Dempseytown, (B3) 15(belmont, Corners, (K4) 100(bents Run, (E4) 400(bents Run, (E4
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nrad, (F3) 360 D nsbohocken, (L9)7,480 D	ixmont, (A7)1,200 ixon, (K3)130
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dersport, (F2)3,100 Dr	rehersville, (K7) 420 resher, (L9) 300
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Clearville, (E10)	Iston, (E9)
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300 300		0 Cumbola, (J7) 730	E.	Broadtop, (E9) 1	00	Eriton, (D5)	
700 280	Clermont, (E3) 30 Cleversburg, (G9) 13	0 Cumbola, (J7) 730 0 Curllsville, (C5) 98 0 Curry Run, (D6) 200 0 Curwensville,	E.	Broadtop, (E9) 1 stbrook, (A5) 2 Butler, (B6) 5	00 00	Eriton, (D5) Ernest, (C7) Erwinga, (L7)	1,
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,637	Cloe, (D6)	Daisytown, (D8) 382 Daisytown, (B9) 500	E. (reenville, (L8)1,2 Hanover, (H2) 3	35 I	Eureka, (L9).	
,040	Clymer, (C7)1,753	Dale, (D8)2,285	E. I Eas	lickory, (C3) 3! tlemon, (K3) 10	50 I	Eureka, (L9). Evansburg, (A6) Evans City, (A6) Everett, (E9). Evergreen, (J3).)i,
400	Coal Castle, (J7) 200 Coal Center (B9) 816	Dallas, (K4) 576	E. 1	McKeesport, 38)	8 <u>I</u>	vergreen, (J3). verson, (B9)	1.
478	Clitton Heights, (L10)	Dalmatia, (H7) 350	E. 1	K6)3,54	8 1	wingville, (A8) excelsior, (H7).	1,
200 200	Coal Glea, (D5) 300 Coalhill, (B4) 100	Daguscahooda, (IJ4) 200 Dagus Mines, (D4), 800 Dalys Mines, (D4), 800 Dahoga, (D3), 200 Dalsytown, (B8), 382 Dalsytown, (B8), 500 Dale, (K8), 1,000 Dale, (K8), 2285 Daleville, (L4), 250 Dallas, (K4), 350 Dallas, (K4), 160 Dallastowo, (H10), 1,884 Dalmatia, (H17), 350 Dalton, (K3), 160 Danielsville, (K6), 1,000 Danville, (H6), 7,517 Darby, (L10), 6,305 Darlington, (A6), 311 Darragh, (B8), 1,500 Dauberville, (I8), 100 Deckers Point, (C6), 100 Deckers Point, (C6), 100 Decgan, (B5), 400	E. N	Nauth Chunk, 3,54 Naotmeal, (K9) 20 Newcastle, (A6) 20 ton, (L7) 28,52 letersburg, (J9) 60 littsburg, (B8)5,61 Tospect, (H10) 31	0 H	Everson, (B9) Everson, (B9) Everson, (B9) Everson, (H7) Exchange, (H5) Exeter, (K4) Exeter Borough, (K4)	3,
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600	Cochranton, (A3) 695 Cochranville, (K10). 250 Cocolamus, (G7) 100 Codorus, (H10) 420	Dean, (D7) 380 Deanville (C6)	E.T	exas, (K7) 30 itnsville, (B3) 20 roy, (H3) 21 vale, (A6) 32	0 F	airfield Center, airhaven, (A8).	(H4) 1
100 250	Coffeetown, (L7) 500 Cogan House, (G4). 400 Cogan Station, (G4). 200	Deckers Point, (C6). 100 Deckers Point, (C6). 400	East	andergrift (D7)1 05	2 17	airland, (J9)	ĵ
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160 500	College Hill, (A6)1,787 Collegeville, (L9).	De Lancey, (D6) 200 Delano, (J6) 100 Delaware Water Gap, (L6) 446 Delmont, (B8) 500 Delta, (J11) 881 Dempsey town, (B3). 150	Eber	vale, (K5) 71	O F	alls, (K4). alls Creek, (D5)1,2
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130	Collomsville, (G5) 170 Colmar, (L8) 150	Dents Run, (E4) 400 Denver, (J9)1,000	Edd	vstone, (L10)1,16	F	annettsburg. (F	9) 3
300 500	Colmar, (L8) 150 Coiona, (A7) 1,000 Columbia, (J9) . 11,454 Columbia Cross	Deodate, (H9) 200 Derrick City, (D2) 200	Edel:	la, (K3)	F	armersville, ()9 arrandsville, (F: arrell, (A5)	5)3
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00	Conestoga, (10) 600 Confinence, (C10) 890 Conifer, (C5) 300 Conneaut Lake, (A3) 725 Conneautville, (A2). 867 Connellsville, (H9) 12 845	Dick, (B8)	Edge Edin	Durg, (B4). 61: grove, (G11). 15: hill, (L9)). 65: mont, (L10). 16: wood, (B8). 2,59: worth, (A7). 1,22: boro, (A2). 66: burg, (A5). 44(C7)	F		
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,00	Compettavitte, (71) 12,019	Dillsburg, (H9) 853 Dimock, (K3) 100	Edwa Effor	rdsville, (K4).8,407 t, (L6)	Fi	ertigs, (B4). elds Station, (G ler. (A4)	4). 20
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50	Conway, (A7)1,483 Conyngbam, (J6) 406 Cookport, (D7) 150	(M5)	Elco, Elder	(B4)	Fi	sbertown, (D9) sberville, (H7). sbing Creek, (J! tzwatertown, (I veforks (F10)	5) 22
15	Coolbaughs, (L5) 100	Dolington, (M9) 130 Donaldson, (J7) 1,100 Donegal, (C9) 147 Donora, (B9) 8,174	Elder El Do	ton, (C7) 285			4
90	Coopershurg (C3) 150	Donora, (B9)8,174 Dormont, (A8)1,115	Eldre Eldre	d, (E2)1,235 dsville, (H3) 100	Fi	(K8)	10
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40	Corry, (B2)5,991 Corsica, (C5)301	(K9)3,326 Doylesburg, (F9) 100 Doylestown, (L8)3,304 Draketown, (C10) 120 Draper, (G3) 140 Dravosburg, (B8)1,895 Drehersyille, (K7) 420	Elk G	pethtown, (H9)2, 587 pethville, (H7)1,039 ity, (B4) 100 rove, (J4) 100 rove, (J4) 200 ake, (J3) 200 ake, (J3) 200 on, (H3) 175 ick, (C11) 1,200 on, (H3) 100 t, (A8) 4,200 tsburg, (G8) 140 iss Mills, (A5) 650 isson, (G9) 110 urg, (F2) 130	Flo	ve-Mile House, (K8) vepoints, (A5). atwoods, (B9). eetville, (K3). eetwood, (K8). eming, (F6). emington, (F5). cksville, (L6). oreffe, (B8). orenza, (D5). orin, (H9).	33
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0 C	reamery, (L9) 150 reekside, (C7) 563 reighton, (B7) 600	Dunmore, (K4)17,615 E Dupont, (K4) 500 E	mera meric	ld, (K1) 200 kville, (C5) 180	Fon	ntain Dale,(G1	.2,333 1) 250
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0 C	rooked Creek, (G2) 150 I	Eagles Mere, (H4). 184 E Eagleville, (L9). 160 F	nglish	Center (CA) 600	Fran	klin. (D8)	2 102
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0 C	rossroads, (H10) 158 I rothers, (A9) 100 I rumlynne, (L10) 600 I umberland Valley,	E. Bellevue, (A8) 250 E. Benton, (K3) 200 E		a, (J9)3,192 (B8)300	Fran Fran	klinville, (E7). kstown, (E8).	120
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Niles Valley, (G2) 209 Ninevch, (A10) 250 Nittany, (F6) 180	(B5)	Powelton, (E6) 150 R
Nittany, (F6) 180	Parkland, (M9) 100	Prescottville, (D5) 300 R
Nablestown, (A8)1,000 Nordmont, (J4) 100 Normal, (K6) 130 Normalville, (C10) 140 Norristown, (L9)27,875 Northampton, (L7)8,729 Northampton Heights, (L7) 1,037 No. Belle Vernon, (B9) 1,522 Northempton, (F4) 800 No. Berwick, (J5) 100 No. Braddock, (B8) 11,824	Parkplace, (16). 200 Parnassus, (67). 2,578 Parryville, (K6). 590 Parsons, (K5). 4,338 Parthenia, (C2). 150 Passmore, (K3). 250 Patchinsville, (D6). 150 Patterson, (G7). 885 Patterson Hgts, (A6) 367 Patton, (D7). 3,907	Deiestor (VA) 500 R
Normal, (K6) 130 Normalville, (C10) 140	Parryville, (K6) 590 Parsons, (K5)4,338	Pricetown, (K8)
Norristown, (L9)27,875	Parthenia, (C2) 150 Passmore, (K8) 250	Primrose, (A8) 200 R
Northampton Heights,	Patchinsville, (D6) 150	Princeton, (Ao) 300 R Pringle, (K4) 300 R
No. Belle Vernon,	Patterson (17)	Proctor, (H4) 350 R Progress, (H8) 300 R
Northbend, (F4) 800	Paulton, (B7) 500	Prompton, (L3) 263 R
No. Berwick, (J5) 100	Paupac, (L4) 160 Paxton, (H7) 100	Prospect Park,
(B8)	Paxtonville, (G6) 210	(L10)
No. Catasauqua,	Peale, (E5) 800	Prosperity, (A9) 180 Providence Sq. (L9) 100 R
(L7)	Peely, (K5)1,000	Pulaski, (As) R
No. East, (B1)2,672 No. Freedom, (C5) 130	Pen Argyl, (L6)3,967 Penbrook, (H8)1,462	Puritan, (D8)
No. Girard, (A1) 750	Pencoyd, (L9) 800	Quakake, (J6) 500 R
No. 1rwin, (183)	Penllyn, (L9) 130	Quakertown, (L8)3,801 R
No. Mehoopany, (J3) 300	Pena Rua, (C7) 200	Queen, (D8) 120 R
No. Mountain, (H4). 200 No. Pinegrove, (C4). 250	Penns Creek, (G6)1,141	Queenstown, (BS) 72 R
No. Rome, (J2) 100 No. Sewickly, (A6) 300	Pennsdale, (H4) 200 Penos Park, (M8) 150	Raccoon, (A8) 100 R
No. Springfield, (A1) 150 No. Star, (A8) 500	Penns Station, (B8) 1,500	Racine, (A6) 200 R Radnor, (L9)3,000 R
No. Star, (A8) 500 No. Towanda, (J2) 910	Penns Stattled, (B9) 300 Pennsylvania Furnace, (F7) 300 Pennsylvania Furnace, (F7) 300 Pennvalley, (M9) 150 Penryn, (J9) 200 Pensyl, (J6) 500 Peoples, (J7) 100 Pequea (K9) 200 Perty, (B10) 500 Perty, (B10) 500 Perty, (B10) 500 Pertysville, (K8) 230 Perryopolis, (B9) 600 Perrysville, (A7) 300 Petrolamerville, (K8) 230 Petrolamerville, (K8) 230 Petrolamerville, (K8) 230 Petrolamerville, (K8) 230 Petrolamerville, (K8) 230 Petrolamerville, (K8) 230 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Petrolamerville, (K8) 300 Pendus Valley, (G7) 100 Philadelphia, (G10) 1549 008	Putneyville, (C6) 150 R Quakake, (J6) 500 R Quakertown, (L8) 3,801 R Quarryville, (J10) 739 R Queen, (D8) 120 R Queen Junction, (B6) 200 R Queen Junction, (B6) 200 R Raccoon, (A8) 100 R Raccoon, (A8) 100 R Racine, (A6) 200 R Radnor, (L9) 3,000 R Railroad, (H11) 308 R Railson, (H4) 900 R Raney, (E6) 1,045 R Ramsaytown, (C5) 600 R Randolph, (A3) 170 R Randolph, (A3) 170 R Randolph, (A3) 170 R
Northumberland, (H6)3,517	Pennvalley, (M9) 150	Ralston, (H4) 900 R
Nortoumberiand, (H6)	Penryn, (19)	Ramsaytown, (C5) 600 R
No. Warren, (C2) 650	Peoples, (J7) 100 Peoples (K9). 200	Randolph, (A3) 170 F Rankin Sta, (B8). 6,042 F Ranshaw, (H6) 200 S Rathmel, (D5) 1,000 S Rattigan, (B6) 200 S Raubsville, (L7) 100 S Rauchtown, (G5) 200 S Ravenrun, (J6) 500 S Ravenrun, (J6) 500 S Ravine, (J7) 300 S Ravineyille, (J10) 180 S Rays Hill, (E10) 100 S Reading, (K8) 96,071 S
No. Water Gap, (L5) 200	Pequea Creek, (J10). 200	Ranshaw, (H6) 200 S
Norwood, (L10)1,668	Perkasie, (L8)2,779	Rattigan (B6) 200 S
Norwood Station, (L10)1,400	Perkiomenville, (K8) 230 Perryopolis, (B9) 600	Rauchtown, (G5) 200 S
Nottingham, (K11) 150	Perrysville, (A7) 300	Ravenrun, (J6) 300 S Ravine, (J7) 300 S
Noxen, (J4) 800	Peterscreek, (J11) 200	Rawlinsville, (J10) 180 S
Numidia, (J6) 300	(B3) 200	Reading, (K8)96,071 S
Nuremberg, (J6) 700 Oakbottom, (J10) 300	Petrolia, (B5) 360 Pfouts Valley, (G7) 100	Rebersburg, (F6) 250 S
Oakbrook, (K8) 200	Philadelphia,	Redbank, (B5) 100 S
Norwood Station (L10) 1,400 Nottingham, (K11) 150 Nowrytown, (C7) 500 Nozen, (14) 800 Nuangola, (K5) 124 Numidia, (J6) 300 Nuremberg, (J6) 700 Oakbottom, (J10) 300 Oakbottom, (J10) 300 Oakbottom, (J10) 300 Oakhade, (A8) 1,353 Oak Hall Sta, (F6) 210 Oakhill, (J10) 300 Oakland, (C6) 360 Oakland, (K2) 915 Oakmont, (B7) 3,436 Oak Ridge, (C5) 900	Philipsburg, (E6)3,585	Rays Hill, (E10) 100 Reading, (K 8) 96,071 Reamstown, (19) 800 Rebersburg, (F6) 250 Rebuck, (H7) 400 Redbank, (B5) 100 Redclyffe, (C4) 150 Redhill, (K 8) 664 Redington, (L 7) 360 Redland, (G10) 150 Red Lion, (H10) 2,092 Redman Milla, (B8) 500 Red Rock, (D2) 130 Redrun, (J 9) 150 Redrun, (J 9) 150 Redrun, (J 9) 150 Refton, (J 10) 100 Register, (J 5) 170 St.
Oakland, (C6) 360	Phoenix, (C6) 130	Redington, (L7) 360 S
Oakland, (K2) 915 Oakmont, (B7)3.436	Phoenixville, (K9).10,743 Picture Rocks, (H4). 576	Red Lion, (H10)2,092 S
Oak Ridge, (C5) 900	Pikesville, (K8) 150	Redman Milla, (B8). 500 S Red Rock, (D2) 130 S
Oak Station, (A8) 250	Pillow, (H7) 450	Redrun, (J9) 150 S
Oakville, (G9) 130	Pine Forge, (K8) 160	Refton, (J10) 100 S
Obelisk, (K8) 250 Oberlin, (H9) 550	Pineglen, (E5) 210 Pinegrove, (J7)1,352	Rehrersburg, (J8) 510 S
Obold, (J8) 250 Octoraro (110) 100	Pinegrove Furnace.	Reinholds Sta. (18). 160 S
Oakmont, (87). 3,436 Oak Ridge, (CS). 900 Oaks, (L9). 120 Oak Station, (A8). 250 Oakview, (L10). 400 Oakville, (G9). 130 Obelisk, (K8). 250 Oberlin, (H9). 550 Obold, (J8). 250 Octoraro, (J10). 100 Odenthal, (D8). 300 Ogden, (L10). 110	Philadelphia, (L10) 1,549,008 Philipsburg, (E6) 3,585 Philipston, (B5) 500 Phoenix, (C6) 130 Phoenixville, (K8) 130 Picture Rocks, (H4) 576 Pikesville, (K8) 150 Piketown, (H8) 130 Pillow, (H7) 450 Pine Bank, (A10) 200 Pine Forge, (K8) 160 Pineglen, (E5) 210 Pinegrove, (J7) 1,352 Pinegrove Furnace. (G9) 300 Pinegrove Mills, (F7) 330 Pine Station, (G3) 200	Punyasutawney, (Co)9, use Ruritan, (D8)
DEGLIS (ANEO/20000 A SE	a see o substone (or o / He 200	

W. Bridgewater, (A7)	0 W. Reading, (K8). 2,064 White Haven, (K5).1,438 (W. Reyondsville, Whiteborse, (L10)	Williams Grove, (E5) 400 Wiloton, (K4) 5,280 Wright	1, (L8). 140 Yoe, (H10). 567 1, (E3). 100 Yohoghany, (B8). 400 1, (14). 170 York, (H10)				
	RHODE 1915 STATE CENSUS FIGURES	ISLANDPopulation of Township					
Abbottrun, (L5). 250 Adamsville, (M6). 300 Albion, (L5). 450 Allenton, (L6). 700 Alton, (K7). 100 Anthony, (K6). 1,500 Arcadia, (K6). 1300 Arcadia, (K6). 100 Archic, (K6). 3,100 Archington, (L5). 1,300 Arabaway, (16). 1,200 Ashaway, (16). 1,200 Cumberland, (L6). 20,900 Auburn, (L5). 4,500 Auburn, (L5). 4,500 Auburn, (L5). 2,500 Austin, (K6). 100 Barrington, (L6). 2,982 Block Island, (K8). 1,200 Bradford, (K7). 150 Bradford, (K7). 150 Braistol, (L6). 100 Canoachet, (J7). 100 Caroachet, (J7). 100 Centerville, (K5). 1,250 Centerville, (K5). 1,200 Conimicut, (L6). 20,940 Cranston, (L5). 26,940 Cumberland, (L5). 19,929 Cumberland, (L5). 150 Davisville, (L6). 580	Diamond Hill, (L5) . 250 Greystone, (K5) 800 E. Greenwich, (L6) 3,604 Hamilton, (L6) 300 Harrisville, (K5) 2,200 Hillsgrove, (L6) 800 E. Providence Center. Hoee, (K6) 850	Longmeadaw, (L6) 350 Pawtucket, (L5)55,335 Shanno Lonsdale, (L5)4,000 Peace Dale, (L7)1,550 Shawon	ck, (K7) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 100 ct, (L6) 10				
	SOUTH C	CAROLINA					
Bennettsville, (H3) 2,646 Congaree, (F6) 100 Bessie, (C3) 250 Conpors, (G8) 100 Bethune, (G4) 317 Converse, (D2)1,000	Effingham, (H5). 150 Ehrhardt, (E9). 315 Elks, (E8). 114 Elleoton, (D9). 367 Elliott, (G5). 500 Elliote, (F7). 540 Enore, (C3). 2,000 Estill, (E10). 460 Enerprise, (C8). 200 Estill, (E10). 460 Ethel, (C3). 100 Hickory Grove, (E2). 285 Ekthange, (C8). 300 Fairlax, (E10). 499 Fairforest, (C2). 300 Fairlax, (E10). 499 Fair Play, (A3). 100 Fairmon, (C2). 100 Freguson, (G8). 100 Freguson, (G8). 101 Frorkshoals, (C3). 360 Fort Lawo, (F3). 204 Fort Motte, (F7). 392 Fountain Inn, (C3) Fort Motte, (F7). 392 Fromtore, (B9). 100 Forgaton, (E6). 150 Georgetowo, (J8). 5530 Genery, (D1). 4,767 Gaston, (E6). 150 Georgetowo, (J8). 5530 Glendale, (D2). 600 Goldwille, (D4). 210 Goldwille, (D4). 210 Goldwille, (D4). 210 Goranteville, (C1). 300 Granteville, (C1). 300	Little Rock, (J4). 99 Livingston, (E7). 168 Lockbart, (D2). 1,000 Lodge, (F9). 300 Lonestar, (F7). 100 Loris, (K5). 229 Lowodesville, (B5). 350 Lowryville, (E2). 343 Lugoff, (F5). 150 Lugoff, (F5). 150 Lugoff, (F5). 150 Lugoff, (F5). 150 Lydia, (G5). 100 Lyrachburg, (G5). 466 McConnellsville, (H9). 700 McColl, (H3). 1,628 McConnellsville, (B9). 300 McCormick, (C6). 613 McCormick, (C6). 613 Macbeth, (H8). 100 Madden, (C4). 150 Madison, (A3). 200 Mallory, (J4). 96 Manning, (G7). 3,844 Marietta, (B1). 310 Marion, (J5). 3,844 Marietta, (B1). 310 Marion, (J5). 3,844 Marrietta, (B1). 310 Mariboro, (H3). 100 Marsy Yard, (H10). 496 NewBrosokand, (E6). 900 NewBork, (D4). 5,028 Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill, Robertsv. Rockbill,	Terry, (C1)				
SOUTH DAKOTA 1915 STATE CENSUS FIGURES							

Aberdeen, (F2) 11,846 Belvidere, (C4) 23, Akaska, (D2) 76 Bemis, (H3) 10 Albee, (H2) 140 Beresiord, (H4) 1,35 Alcester, (H4) 477 Bigstone City, Alexandria, (G4) 936 (H2) 63 Albera, (F3) 34 Bilon Hils (F4) 50	 Buffalo, (A2)	Cheyenne Agency, (D2) 100 Claremont, (F2) 279 Clark, (G3) 1,200		Etban, (F4)	Garretson, (H4)	Hermosa, (A4) 77 Herreid, (D2) 391 Herrick, (E4) 445 Hetland, (G3) 245
Alpena, (F3) 394 Bijou Hills, (E4) 20 Altamont, (H3) 103 Bison, (B2) 20 Andover, (G2) 349 Black Hawk, (A3) 10 Ardmore, (A4) 140 Blunt, (D3) 27 Arlington, (G3) 884 Bonesteel, (E4) 53 Armour, (F4) 953 Bowdle, (E2) 53 Artas, (E2) 159 Bradley, (G2) 53 Artas, (E7) 326 Brandt, (H3) 22 Ashton, (F3) 326 Brentford, (F2) 10 Atbol, (F2) 150 Bridgewater, (G4) 97 Aurora, (H3) 277 Bristol, (G2) 97 Avor, (G4) 525 Britton, (G2) 90 Baltic, (H4) 306 Broadland, (F3) 11 Bancroft, (G3) 139 Brookiogs, (H3) 3, 34	Camp Crook, (A2) 133 Caoastota, (G4) 511 Caoova, (G4) 318 Canton, (H4) 2,316 Carlyle, (E2) 100 Carter, (D4) 103 Carter, (D4) 103 Cartbage, (G3) 535 Castlewood, (G3) 537 Cavour, (G3) 192 Ceoterville, (H4) 1,109 Ceotral City, (A3) 262 Chamberlain, (E4) 1,055	Colman, (H4) 399 Colome, (E4) 415 Colton, (H4) 522 Columbia, (F2) 283 Corona, (H2) 211 Cnrsica, (F4) 300 Cottonwood, (C4) 120 Crandall, (G2) 200 Cresbard, (E2) 238 Crocker, (G2) 36 Custer, (A4) 416	Dolton, (G4)	Farmer, (G4) 550 Faulkton, (E2) 458 Fedora, (G3) 250 Ferney, (F2) 220 Flandreau, (H3) 1,688 Floreoce, (G2) 216 Forest City, (D2) 100 Fort Pierre, (D3) 673 Frankfort, (F3) 428 Frederick, (F2) 402 Freeman, (G4) 725 Fulton, (G4) 234	Glenham, (D2). 139 Goodwin, (H3). 126 Greenway, (E2). 150 Greenwood, (F5). 300 Gregory, (E4). 919 Grenville, (G2). 100 Groton, (F2). 1,028 Harrisburg, (H4). 185 Harrison, (F4). 120	Hill City (A4) 271 Hitchcock, (F3) 261 Holmquist, (G2) 250 Hosmer, (E2) 301 Hot Springs, (A4) 2, 132 Hoven, (E2) 180 Howard, (G3) 1, 169 Hudsoo, (H4) 435 Humboldt, (G4) 450 Hurley, (G4) 531 Huron, (F3) 6,012 Lona, (E4) 100

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Java, (E2) 411 Jefferson, (H6) 501 Kadoda, (C4) 254 Kennebec, (E4) 202 Keystone, (A4) 322 Kimball, (F4) 783 Kranzburg, (H3) 100 Lake Andes, (F4) 566 Lake Norden, (G3) 268 Lake Preston, (G3) 862 Lamro, (E4) 350 Lane, (F3) 273 Lane, (F3) 274 Lebeau, (D2) 420 Lebeau, (D2) 210 Lemmon, (B2) 943 Lennox, (H4) 901	D Lily, (G2) Little Eagle, (D2). Little Eagle, (D2). Lowry, (E2) McLaughljn, D2) Madison, (G4) Manchester, (G3). Manchester, (G3). Manrion, (G4) Marvin, (H2) Meadow, (B2) Meckling, (G5) Mellette, (F2) Menno, (G4) Mildand, (C3) Mildand, (C3) Mildand, (H2) Missionbill, (G5).	Montrose, (G4). Montrose, (G4). Morristown, (C2). Morristown, (C3). Morristown, (C3). Morristown, (C2). Morristown, (C2). Morristown, (C2). Morristown, (C2). Morristown, (C3). Morristown, (C2). -1,551 Orient, (E3)	Roscoe, (E2) 320 Rossebud, (D4) 110 Roswell, (G3) 150 Roubaix, (A3) 100 Rowena, (H4) 100 Rutland, (H3) 225 Saint Lawrence, (F3) 253 Saint Onge, (A3) 250 Salem, (G4) 1,132 Scenic, (B4) 130 Scotland, (G4) 1,249 Scbby, (D2) 646 Seneca, (E2) 182 Sherman, (H4) 211 Sinai, (H3) 145 Sioux Falls, (H4) 20,929 Sisseton, (G2) 1,386	Spencer, (49) 572 Springfield, (F5) 695 Stickney, (F4) 312 Stockholm, (H2) 200 Strandburg, (H2) 117 Stratford, (F2) 400 Sturgis, (A3) 1,029 Summit, (H2) 536 Tabor, (G5) 441 Tea, (H4) 177 Terraville, (A3) 491 Terry, (A3) 600 Timber Lake, (C2) 238 Tolstoy, (E2) 148 Toronto, (H3) 438 Trent, (H4) 274 Tripp, (G4) 903 Tulare, (F3) 250	Utica, (G5). 133 Valley Springs, (H4) 372 Veblen, (G2). 340 Verdon, (F2). 89 Vermilion, (H5). 2,376 Viborg, (G4). 484 Vienna, (G3). 458 Vilas, (G3). 141 Virgil, (F3). 220 Volga, (H3). 616 Volin, (G5). 333 Wagner, (F4). 906 Wakonda, (G4). 403 Wall, (B4). 128 Wallace, (G2). 218 Ward, (H3). 102 Warner, (F2). 250	Webster, (G2)	

TENNESSEE

TEXAS

Abbie, (H5) 200 Alba, (M5)1,200	Alpine, (D7)1,500	Anna, (L4) 300	Arlington, (K.5)1,794	Atoka, (H5) 100	Bagwell, (M4) 300	Bartlett, (K7)1,815
Abbott, (K6) 850 Alhany, (H5)2,000	Altair, (L8) 200	Angeta, (K5) 100	Arneckeville, (K9) 250	Attoyac, (N6) 130	Bailey, (L4) 300	Bartonville, (K4) 300
Abernathy, (F3) 100 Aldine, (M8) 150	Alta Loma, (M8) 400	Annona, (N4) 500	Arnold, (L4) 150	Aubrey, (K4) 800	Baileyville, (L6) 250	Bastrop, (K7)1,707
Abilene, (H5)9,204 Aldridge, (N6) 600	Alto, (M6) 500	Anson, (H5)1,842	Arp, (M5) 350	Auburn, (K5) 100	Baird, (H5)1,710	Batesville, (H9) 200
Abram, (111) 200 Alcilo, (K5) 500						
Acmc, (H3) 300 Alexander, (J5) 500	Alvin, (M8)1,453	Anti, (N4) 100	Artesia, (H9) 100	Augusta, (M6) 120	Bald Prairie, (L6) 130	Battle, (L6) 100
Acton, (K5) 150 Alice, (J10)2,136	Alvord, (K4)2,000	Appleby, (N6) 250	Arthur City, (M4) 150	AUSTIN, (K7)29,860	Baldwin, (N5) 100	Bay City, (L9)3,156
Addison, (L5) 100 Alief, (M8) 150	Amarillo, (F2)9,957	Apple Springs, (M6) 300	Ash. (M6)	Authon, (K5) 100	Ballinger, (G6)3,536	Bazette, (L5) 130
Adkins, (J8) 200 Allen, (L4) 350	Amelia, (N7) 100	Aquilla, (K6) 310	Ashby, (L9) 150	Avalon, (L5) 300	Balsora, (K4) 100	Beattie, (J6) 100
Adrien, (E2) 100 Allenfarm, (L7) 100	Ammannsville, (L8), 300	Aransas Pass, (K10)1,197	Asherton, (H9) 100	Avery, (N4) 300	Bandera, (H8) 370	Beaukiss, (K7) 140
Adsul (07) 250 Alleyton, (L8) 250	Amphion, (19) 250	Arcadia, (M8) 300	Ashland, (N5) 200	Avinger, (N5) 320	Bangs, (H6) 512	Beaumont, (N7)20,640
Aguilares, (H10) 300 Alliance, (L4) 150	Anahuac. (N8) 500	Archer City. (14) 825	Askew, (M4) 250	Avoca, (H5) 100	Banquete, (K10) 100	Bebe, (K8) 100
Airline, (M8) 200 Alma, (L5) 150	Anchor, (M8) 100	Ardath, (L4) 100	Aspermont, (G4) 800	Axtell, (L6) 290	Bardwell, (L5) 100	Beckville, (N5) 650
Ajax, (N5)	Anderson, (M7) 600	Argenta, (K9) 120	Ater, (K6) 100	Azle, (K5) 140	Barksdale, (G8) 500	Bedias, (M7) 500
Alamo Mills, (N4) 100 Almira, (N4) 100	Angelita, (K10) 100	Argo, (N4) 230	Athens, (M5)2,261	Baber, (N6) 200	Barry, (L5) 300	Beeville, (K9)3,269
Alanreed, (G2) 250 Almont, (N4) 100	Angleton, (M8)1,500	Argyle, (K4)250	Atlanta, (N4)1,604	Babyhead, (J7), 100	Barstow, (D6) 690	Belcher, (K4) 181

	INDE	X OF THE U	JNITED STA	TES	(TEXAS)	3/3
Belcherville, (K4) 200 Canadian, (G2)1,648	Crews, (H6) 150	Eskota, (G5) 150 Estelline, (G3) 640	Groesberk, (L6)1,454 Groom, (F2) 200	Kaufman, (L5) 1,950 Keenan, (M7) 500	McAllen, (J11) 750 McCaulley, (G5) 800	Mumford, (L7) 150 Munday, (H4) 956
Bellevue, (J4)	Crockett, (M6)3,947	Eulogy, (K6) 150	Grovesville, (F4) 200 Groveton, (M6)4,600	Keene, (K5) 400 Keller, (K5) 250 Kellyville, (N5) 150	McAulen, (J11) - 390 McCaulley, (G5) - 800 McDade, (K1) - 500 McDowell, (L8) - 200 McGregor, (K6) - 1,864 McKeinney, (L4) - 4,714 McLean, (G2) - 633 McMabon, (K8) - 100 McNeil, (K7) - 200 Mabank (M5) - 1,700	Munz, (N4) 100 Murchison, (M5) 170 Murphy, (L4) 130
Belmont, (K8) 150 Canyon, (F3)1,400 Palott (M6) 200 Carbon (I5) 479		Evadale, (N7) 500	Grulla, (J11) 350 Guffey, (N7)1,000 Gunsight, (J5) 200	Kelm, (L5) 100 Kelsey, (N5) 150	McKinney, (L4)4,714 McLean, (G2)633	Murphy, (L4)
Benarvold, (L7) 200 Carl, (K7) 100 Benarvolds (L10) 500 Carlisle, (M7) 500	Crowther (19) 250	Evant, (Jo) 300 Evergreen, (M7) 200	Gunter, (L4)	Keisey, (N5)	McNeil, (K7) 200 Mabank, (M5) 1,700 Macon, (M4) 100	(M5) 150 Nacogdoches, (N6), 3,369
	Crystal City, (H9) . 330 Crystal Falls, (J5) . 250 Cuero, (K8) 3,109	Fairfield, (L6) 600	Hagansport, (M4). 150 Hagerville, (M6). 100	Kempner, (K6) 170 Kenedy, (K9) 1,147 Kennard, (M6) 600	Madisonville, (M7). 1,600	Naples, (N4) 1,178 Nash, (N4) 300 Nash, (L5) 200
Ponton (19) 100 Carmona, (N/1, 200	Cumby, (M4) 800 Cundiff, (J4) 200 Curtis, (H5) 200 Cushing, (N6) 1,900	Fairle, (14)	Halbert, (O6) 150 Hale Center, (F3) 100 Haleshoro, (M4) 130	Kennedale, (K5) 200 Kenneth, (M7) 1,000	Magnolia, (M7) 100 Mahon, (N5) 200	Navasota, (M7) 3,284 Neal, (M7) 100
Ben Wheeler, (M5). 350 Caro, (N6)1,250 Berclair, (K9)	Cushing, (N6) 1,900 Cusseta, (N4) 100		Hallettsville, (L8)1,379 Hallsville, (N5) 380	Kenney, (L7)	Magnolia, (M7)	Neches, (M6) 350 Nelsonville, (L7) 180
Bernardo, (L3) 100 Carrizo Springs, (H9) 600 Bertram, (J7) 500 Carroll, (M5) 250 Bessmay, (O7) 850 Carrollton, (L5) 400 Bettic, (N5) 100 Carson, (L4) 150 Carson, (L4) 150	Cuthand, (M4) 120	Farmer, (J4) 300 Farmers Branch,	Hamilton, (J6)1,548 Hamlin, (G5)1,978 Hammond, (L6)180	(L4)	Manchaca, (K7) 100 Manchester, (M4) 150 Mangum (I5)	Neuville, (N6) 250 Nevada, (L4) 510 Newark (K4) 350
Beverly, (F3) 100 Carthage, (N3) 100 Biardstown, (M4) 100 Casablanca, (J10) 100	Dacha, (N6) 300 Daingerfield, (N4) 1,000 Dalby Springs, (N4). 250	Farmersville, (L4) .1,848 Farmington, (L4) 150	200	Kildare, (N5) 500 Kilgore, (N5) 450	Manchaca, (K/) - 100 Manchacter, (M4) - 150 Mangum, (J5) - 100 Manning, (N6) - 700 Manor, (K7) - 600 Mansfield, (K5) - 627 Manton, (N6) - 150 Manwel, (M8) - 100 Maratbon, (D7) - 310 Marble Falls, (J7) - 1,061 Marcelena, (18) - 100	Nash, (N4)
Bibb, (16) 100 Cass, (N4) 100	Dale, (K8)	Farwell, (E3) 800 Fate, (L5) 350 Faught, (M4) 150	Hankamer, (N8) 300 Hansford, (F1) 100 Happy, (F3) 400	Killeen, (K6) 1,265 Kimball, (K5) 200 Kingsbury, (K8) 150	Manton, (N6) 150 Manvel, (M8) 100	New Boston, (N4) 2,100 New Braupiels, (J8) 3,165 New Caney, (M7) 150 Newcastle, (J4) 500
Big Creek, (N/) 400 Cathrons Store, (N/)		Farwell, (E3) 800 Fate, (L5) 350 Faught, (M4) 150 Fayetteville, (L8) 274 Fentress, (K8) 250 Ferris, (L5) 1,233 Fieldcreek, (J7) 100	Hardy, (K4) 180 Harleton, (N5) 250 Harlingen (K11). 1.000	Kilgare, (N5) 450 Killeen, (K6) 1,265 Kimball, (K5) 200 Kingsbury, (K8) 150 Kingsland, (J7) 250 Kingston, (L4) 300 Kingsville, (K10) 1,500 Kingsville, (K10) 1,500	Marathon, (D7) 310 Marble Falls, (J7) 1,061 Marcelena, (J8) 100	New Fountain, (H8) 100 New Hope, (L5) 100
Big Creek, (N1). 400 Big Sandy (M5). 1,200 Big Spring, (F5). 4,102 Billington, (L). 200 Birch, (L7). 300 Birdville. (K5). 100 Birthright, (M4). 100 Bivins, (N4). 150 Blackwell, (G5). 400 Cement, (L5). 503 Blagon, (T). 600 Center, (N6). 1684	Darwin, (H10) 100 Datura, (L6) 100	Fieldcreek, (J?)	Harper, (H7)	Tr (3.5.4) 5.70	Marfa (C7) 700	Newport, (J4) 280
Birdville. (K5)	Datura, (L6) 100 Davilla, (K7) 400 Davisville, (N6) 150 Davy, (K8) 150	Fife, (H6)	Harrisburg, (M8) 500 Harrold, (H3) 350 Hartburg, (O7) 300	Kirby, (18)	Margaret, (H3) 250 Marietta, (N4) 250 Marion, (J8) 1,200 Markham, (L8): 400	New Salem, (NO) 100 Newsome, (MS) 100 Newton, (O7) 1,200 New Ulm, (L8) 300 New Waverly, (M7) 500 New Willard, (N7) 500
Blackfoot, (M6) 500 Celina, (L4) 724 Blackwell, (G5) 400 Cement, (L5) 503	Dawson, (L6)	Flatonia, (K8) 886 Flint, (M5) 250	Harwood, (K8) 550 Haskell, (H4)2,436 Hasse, (J6) 250	Kleburg, (L5) 100 Klondike, (M4) 400 Knickerbocker	Marlin, (L6) 3,878 Marquez, (L6) 320 Mars (M5) 150	New Waverly, (M7) 500 New Willard, (N7) 500 Nicholson, (M4) 150
200 Canton (16) 100	Dearwoold, (N3) 200 Dearwoold, (N3) 200 Dearborn, (N7) 500 De Berry, (N5) 100 Decatur, (K4) 1,651	Florence, (K7) 350 Floresville, (J8)1,398 Floyd (J4) 200	Hawkins, (M5) 150 Hearne, (L7)2,352	(G6) 400 Knippa, (H8) 100 Knox City, (H4) 1,200 Kopperl, (K5) 200 Kosse, (L6) 764 Kountze, (N7) 600 Kress, (F3) 300 Kress, (F3) 300	Mars, (M5) 150 Marshall, (N5) 11,452 Mart, (L6) 2,939 Martindale, (K8) 530	Nixed, (K8)
Bleiblerville, (L7) 500 Centerville, (M6) 300	De Berry, (N5) 100 Decatur, (K4)1,651 Decoy (N6)300	Floydada, (F3) 664 Fluvanna, (F5) 500	Heath, (L5)	Kopperl, (K5) 200 Kosse, (L6) 764	Maryneal, (65) 100 Maryneile, (K4) 150 Mason, (H7) 1,200 Matador, (G4) 700	Nocoda, (K4) 1,338 Nolanville, (K6) 150 Nome, (N7) 100
[13]	Decoy, (N6) 300 Deepwater, (M8) 250 De Kalb, (N4) 1,000	Forest, (M6) 150 Forestburg, (K4) 250	Heidenheimer, (K6). 200 Helena, (K9) 100			
Blossom, (M4)	De Leon, (J5)1,015 Del Rio, (G8)7,200 Denison, (L4)13,632	Forreston, (L5) 400	Helotes, (J8) 480 Hempbill, (O6) 300 Hempstead, (M7)2,600	Kyle, (K7)	Matinburg, (M5) 100 Matthews, (L8) 150 Maud, (N4) 300 Maverick, (G6) 100	Normangee, (L6) 200 Normanna, (K9) 400 North Fort Worth,
Bluegrove, (14). 430 Charpin, (111). 200 Blueridge, (14). 430 Charco, (K9). 800 Bluff, (18). 200 Charleston, (M4). 200 Bluff Dale, (J5). 700 Cherokee, (J7). 250 Cherokee, (J7). 150	De Kalb, (N4)	THE TO 1 (13/11) OFO	Henly, (J7)	Lagarto (K9) 150 La Gloria (J10) 100	Maxdale, (A./) 100	(K5) 3,000 Norton, (G6) 120 Noxville, (H7) 150
Blum (K5) 500 Cherryspring, (J7) 150 Boerne, (J8) 886 Chester, (N7) 300 Bogata, (M4) 400 Chico, (K4) 1,200	Desdemona, (J5) 200 Detroit, (M4)2,000	Fort McKavett, (G7) 200 Ft. Sam Houston, (18)	Hennessy, (M6)100 Henrietta, (J4)2,104 Hereford, (E3)1,750	Lagarto, (K9). 150 Lagarto, (K9). 150 Lagarto, (H0). 100 Lagrange, (L8). 1,850 Lajitas, (D8). 140 Lamarque, (N8). 210 Lamarque, (N8). 210 Lamaseo, (M4). 250	Maxwell, (K8) 250 May, (J6) 400 Maybard, (M7) 250	Nubia, (G5) 500 Nursery, (K9) 250 Oak Grove, (N4) 200 Oakbill, (K7) 200 Oakland, (L8) 250
Bollvar, (A4)	Descendia, (15)	Ft. Stockton, (E7) 300	Hermleigh, (G5) 600 Hewitt, (K6) 150 Hext, (H7) 300	Lamarque, (N8) 210 Lamasco, (M4) 250 La Morrie (O6) 100	May, (J6) 400 Maynard, (M7) 250 Maypearl, (K5) 500 Maysfield, (L7) 160 Medicine Mound,	Oakbill, (K7)
Bonnam, (K4) 200 Chilton, (L6) 500 Bonney, (M8) 200 China, (N7) 400 Bonus, (L8) 600 China Spring, (K6) 300	Deweyville. (07) 500	Franklin (1.6) 1.200	Hext, (H7)	Lamesa, (F5)	(H3) 100 Medina, (H8) 100 Melissa, (L4) 260	Oakwood (M6). 906
Bon Wier, (07) 100 Chireno, (No) 250	D'Hanis, (H8) 300		Higgins, (G1)1,200 High Hill, (LS)100 High Island, (N8)200	Lamasco, (м4). 250 La Merele, (O6). 100 Lamesa, (F5). 1,000 Lampasas, (J6). 2,119 Lancaster, (L5). 1,115 Lancville, (N5). 180 Langtry, (F8). 150 Lanbam, (K6). 130 Lanning, (H4). 200	Memphis. (G3) 1.936	Ochiltree (C1) 500
Bovina, (E3) 100 Christine, (J8) 100 Bovina, (M4) 130 Christoval, (G6) 200	Dickens, (G4) 250 Dickey, (M6) 200	Friendswood (M8), 140			Menard, (H7) 500 Mercedes, (K11) 1,209 Mercury, (H6) 500	Odell, (H3)
Boyce, (L5) 100 Cibolo, (J8) 200	Diavlie, (No)	Frisco, (L4) 600 Frosa, (L6) 300	Hillsboro, (K5)6,115 Hitchcock, (M8)650 Hobson, (K9)100	Laredo, (H10) 14,855 Larissa, (M5) 150 Laurelia, (N7) 750	Meridian, (K6) 718 Merit, (L4) 330 Merkel, (H5) 2,008	Ojuelos, (J10) 300 Olive, (N7) 300 Olney, (J4) 1.095
Brackettville, (Go). 250 Clairement (GA). 200	Dilley, (H9) 200 Dimmitt, (E3) 150 Direct, (M4) 180	Fruitland, (K4) 150 Fruitvale, (M5) 150	Holland, (K7) 778	Lavernia, (J8) 500 Lavon, (L4) 300 Lawrence (L5) 150	Mercedes, (K.11 1,209 Mercity, (H6) 500 Meridian, (K6) 718 Merit, (L4) 330 Merkel, (H5) 2,008 Mertens, (L5) 450 Mesquite, (L5) 687 Mexia, (L6) 2,694 Meyersville, (K9) 200 Mismi (G2) 500	Olney, (J4)
Brady, (H6)	Ditto, (J8) 100 Dixieland, (D6) 100	Friona, (E3)	Honea, (M7) 150 Honey Grove(M4).2,300	Lawsonville, (N6) 100 League City, (M8) 500 Leakey, (H8) 200	Meyersville, (K9) 200 Miami, (G2) 500	Opalaska, (N7) 150 Orange, (O7) 5,527
Brake, (tville, (L7). 400 Clarksville, (M4)2,065 Brandon, (K5). 401 Claude, (F2)622 Brashear, (M4)300 Clavson, (N6)2500 Clayton (NS)2500	Dodge, (M7) 300	Gainesville, (K4) 7,624	Hood, (K4)	League City, (M8) 500 Leakey, (H8) 200 Leander, (K7) 250 Lebanon, (L4) 230 Lebbetter, (L7) 200 Lecesburg, (M4) 250 Leesville, (K8) 200 Lecesville, (K8) 200 Leonoville, (M7) 200 Lemonville, (M7) 200 Lemonville, (M7) 100 Lenz, (K9) 100 Lenz, (K9) 100 Leonard, (L4) 990 Leon Springs, (J8) 150 Leroy, (K6) 100 Levis, (M6) 130 Lewisville, (K4) 800 Lexington, (K7) 1600 Libetty, (M7) 980 Libetty, (M7) 980 Libetty, (M7) 980 Libetty, (M7) 980 Libetty, (M8) 658 Linden, (M5) 500 Lindsay, (K4) 130 Lindsay, (K4) 130 Lindsay, (K4) 130 Lingleville, (J5) 200 Lingscomb, (G1) 130 Lisbon, (L5) 150 Little Elim, (K4) 120 Little River, (K6) 230 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Liverpool, (M8) 200 Lockhart, (K8) 2945 Lockhey, (F3) 750 Lodd, (N5) 330 Lodwick, (N5) 560 Loemeta, (J6) 500	Meyersville, (K9) 200 Miami, (G2) 500 Midland, (E6). 2,192 Midland, (E6). 2,192 Midland, (K5). 868 Midway, (M6). 100 Midyett, (N5). 120 Miguel, (J9). 100 Milam, (O6). 100 Milam, (H6). 300 Milburn, (H6). 300 Milburn, (H6). 1,302 Milford, (L5). 7302 Miller Grove, (M4). 100 Millersview, (H6). 250 Millett, (H9). 300 Milletim, (L8). 150 Millican, (L7). 600 Millican, (L7). 800 Millican, (L7). 800	Orangeville, (L4) 100 Orchard, (L8) 200 Orphans Home,
Brazoria, (M8) 800 Clayton, (N5) 200	Donie, (L6) 200 Douglass, (N6) 100	Galveston, (N8) 36,981	Horn Hill, (L6) 300 Hortense, (N7) 500 Houghton (L4)	Leesburg, (M4) 250 Leesville, (K8) 200	Midyett, (NS)	(L5) 200 Osage, (K6) 140 Oscar, (K6) 150
Bracks, U.J. 1,000 Cleburne, (K.5). 10,364 Breekenridge, (J.5). 1,000 Cleveland, (N.7). 1,000 Brenham, (L.7). 4,718 Clevenger, (N.6). 350 Bridgeport, (K.4). 2,000 Clifton, (K.6). 1,137	Downing, (J5) 100 Downsville, (K6) 100 Drasco, (H5) 400	Ganado, (L2)	Houghton, (L4) 300 Housley, (L5) 100 Houston, (M8)78,800	Legett, (N7) 200 Legett, (N7) 100	Milano, (L7) 450 Milburn, (H6) 300 Miles, (G6) 1,302	Oscar, (K6) 150 Osceola, (K5) 100 Ottawa, (M7) 300 Ottine, (K8) 350
Brighton, (K10) 100 Cline, (G8) 100	Dresden, (L5) 160 Dripping Springs,	Garden Valley, (M5). 200 Garland, (L5) 804 Garrett, (L5) 150	Houston Heights, (M8)6,984 Howe, (L4)581 Howland, (M4)400	Lenz, (K9)	Miller Grove, (M4). 100	Otto, (L6) 150 Ovalo, (H5) 600
Britton, (K5) 200 Clyde, (H5) 495	(j7)		Howland, (M4) 400 Hubbard, (L6)1,843 Huckabay, (L5) 150	Leroy, (K6) 100 Lewis, (M6) 130	Millett, (H9) 300 Millbeim, (L8) 150	Ortawa, (MY) 300 Ottine, (K8) 350 Otto, (L6) 150 Ovalo, (H5) 600 Overton, (N5) 700 Ovilla, (L5) 200 Owens, (G6) 130 Ozona, (F7) 1,200 Paducah, (G4) 1,350 Paige, (K7) 500
Brogado, (D6)	Duffau, (K5) 100 Dumas, (F2) 100	Gary, (N5)	Hufsmith, (M7) 150 Hughes Springs, (N4) 850	Lexington, (K7) 1,600 Liberty, (N7) 980	Millsap, (J5) 800 Milton, (M4) 150	Paducah, (G4) 1,350 Paige, (K7) 500 Paint Rock, (H6) 500
Brookeland, (N6)). 800 Coldspring, (M7). 600 Brooklyn Heights, Coleman, (H6). 3,046	Duncanville, (L.S.). 100 Dundee, (J4) 150 Dunlap, (G3) 100 Durango, (K6) 200 Durant, (N6) 300 Duster, (J5) 300 Eagle Ford, (L5) 250 Eagle Lake, (L8) 1,717 Eagle Pass, (G9) 3,536 E. Bernard, (L8) 100 Eastland, (J5) 855 Ector, (L4) 404 Eddy, (K6) 500	Gause, (L7)	Huckabay, (J5)	Liberty Hill, (J7) 500 Lillian, (K5) 300 Lindale, (M5) 658	Millsap, (J5) 800 Milton, (M4) 150 Milvid, (N7) 200 Minden, (N5) 200 Mineola, (M5) 1,706	Paint Rock, (H6) 500 Paisano, (J10) 180 Palarios, (L9) 1.389
(K5)	Durant, (N6)	Genoa, (M8) 100 George, (L7) 300 Georgetown, (K7) 3,096	Huntsville, (M7) 2,072 Hutchips, (L5) 350 Hutto, (K7) 800	Linden, (N5) 500 Lindsay, (K4) 130	Minera, (H10) 1,000 Mineral, (K9) 100 Mineral Wells, (J5). 3,950	Pagatox, (F110)
	Eagle Ford, (L5) 250 Eagle Lake, (L8)1,717 Eagle Pass (G9) 3 536	Georgetown, (K7)350 Germantown, (K9)350 Geronimo, (J8)150	Hutto, (K7) 800 Huxley, (O6) 100 Hylton, (G5) 300	Linwood, (N6) 300 Lipscomb, (G1) 130	Minerva, (L7) 100 Mingus, (J5) 1,000 Missouri City, (M8) 130	Palmetto, (M7)
Brownsboro, (M5). 160 Colquitt, (L5). 100 Brownsville, (K12)10,517 Coltharps, (M6). 150 Brownswood, (H6). 6,967 Columbia, (M8). 900 Bruceville, (K6). 600 Columbus, (L8). 2,500	E. Bernard, (L8) 100 Eastland, (J5) 855	Gibtown, (J4)	Imperial, (M8) 150 Independence, (L7) _ 300	Littig, (K7) 250 Little Elm, (K4) 120	Mobeetie, (G2) 650 Modisett, (N6) 150	Pampa, (G2) 200
Bryan, (L/)4,152 Comanche, Oolinanche,	Eddy, (K6)	Germantown, (K.Y) 350 Geronimo, (J8) 150 Gibtown, (J4) 150 Giddings, (L7) 2,000 Gilmer, (N5) 1,484 Gindale, (K.7) 200 Giager, (M5) 100 Gladewater, (N5) 500 Glendale, (M7) 200	Ingo, (M8) 100 Imperial, (M8) 150 Independence, (L7) 300 Indiancreek, (J6) 100 Indian Gap, (J6) 100 Industry, (L8) 500 Ingr. (J6) 100	Little River, (K6) 230 Liverpool, (M8) 200 Livingston, (N7) 1,700	Missouri City, (M8) 130 Mobectie, (G2) 650 Modisett, (N6) 150 Moffatt, (K6) 200 Monahans, (E6) 200 Monkstown, (M4) 300 Monroc, (N5) 130 Montague, (K4) 284 Montalba, (M6) 100 Mont Elevien, (N8) 230 Montaguery, (M7) 400	Pandora, (K8)
Bryson, (J4)	Edgar, (K8) 100 Edgewood, (M5) 450 Edhube, (L4) 150	Glenbelto, (K7) 200 Glendale, (M7) 100	Inez, (L9) 100 Iola, (L7) 300 Iowa Park, (J4) 603 Iredell, (K6) 750 Irene, (L6) 400	Llano, (J7) 1,687 Lloyd, (L4) 200 Locker, (J6) 100	Monroe, (N5) 130 Montague, (K4) 284 Montaiba, (M6) 100	Papalote, (K9) 180 Paradise, (K4) 500
Buda, (K7)	Edna, (L9)	Glen Rose, (K5)2,000 Glen wood, (N5)100	Iredell, (K6)	Lockhart, (K8) 2,945 Lockney, (F3) 750	Mont Belvieu, (NS) 250 Montgomery, (M7) 400 Montopolis, (K7) 200	Parita, (J8) 100 Parker, (K5) 100
Bryans Mill, (N4). 100 Cometa, (H9). 300 Bryson, (J4). 250 Comfort, (J8). 566 Buck, (N7). 400 Commerce, (M4). 2,818 Buckholts, (K7). 100 Come, (M4)	Edna, (M5)	Glenflora, (L8). 400 Glen Rose, (K5). 2,000 Glenwood, (N5). 100 Glidden, (L8). 300 Glory, (M4). 140 Gober, (M4). 100	Ironosa, (N6)	Lodwick, (N5) 500 Loeb, (N7) 200	Mont Between (1807) Montgomery, (M7) 400 Montopolis, (K7) 200 Moody, (K6) 983 Moore, (H8) 500 Moraces, (L8) 150 Morales, (L8) 100	Pasadena, (M8) 100 Patterson, (M8) 150
Buna, (07) 500 Conroe, (M7)	Electra (13) 640	Godley, (K5)	Itasca, (K5)	Lone Grove, (J7) 100 Loneoak, (M5) 756	Morales, (L8) 100 Moran, (H5) 450	Pearland, (M8) 140 Pearsall, (H9) 1.799
Burket, (N6) 200 Cookville, (N4) 500 Burkett, (H5) 300 Cooledge, (L6) 501 Burkeville, (O6) 200 Cooper, (M4) 1,513 Burkeville, (C6) 500 Cooper, (M4) 1,513	Eliasville, (J5)	Guldthwaite, (J6). 1,129 Goliad, (K9)2,100 Gomez, (E4) 100	Jacksonville, (M6) _ 2,875 Jardin, (M4) 130	Loeb, (N7) 200 Lometa, (J6) 500 Lone Grove, (J7) 100 Loneak, (M5) 756 Long Branch, (N5) 130 Longmott, (L9) 150 Longworth, (G5) 100 Longworth, (G5) 100	Morans, (H5)	Petble, (H8) 100 Pecan Gap. (M4) 600
Burleson, (K.5). 500 Copeville, (L.4). 150 Burlington, (K.7). 400 Coppell, (K.5). 100 Burnet, (J7). 981 Copperas Cove, (K.6) 400 Burns, (K.4) 100 Cornhill, (K.7). 250	Elkins, (J6)	Gonzales, (K8)3,139 Gordon, (J5)609 Gurdonville, (L4) 130	Irene, (I.6) 400 Iris, (M6) 250 Ironosa, (N6) 100 Islitas, (H10) 200 Italy, (L5) 1,49 Itasca, (K.5) 1,356 Iuka, (J8) 100 Jacksboro, (J4) 1,480 Jacksonville, (M6) 2,875 Jardin, (M4) 130 Jasper, (N7) 400 Jayton, (G4) 314 Jefferson, (N5) 2,515 Jennings, (M4) 100 Jewett, (L6) 586	Longworth, (G5) 100 Lopeno, (H11) 100 Loraine, (G5) 633	Morrill, (M6) 200 Moscow, (N7) 240 Mosheim, (K6) 250	Pecos, (D6) 1,856
Burton, (L7) 400 Corpus Christi, Pueler (M6) 110 (K10)	Elm Mott, (K6) 130	Gorce, (H4)1,000 Gorman, (J5)963 Gouldbusk, (H6)100	Jennings, (M4) 100 Jewett, (L6) 586 Jeograph (N6)	Lorena, (K6) 450 Losoya, (J8) 140	Mosheim, (K6) 250 Motley, (N5) 100 Moulton, (K8) 600 Mountain Feak.	Pella, (K4). 200 Pendleton, (K6) 100
Bynum, (L6) 150 Corsicana, (L5)9,749 Caddo, (15) 200 Coryell, (K6) 200	Elmtown (M6). 250	Graford, (15)	Jewett, (L6)	Lott, (K6)	(L5) 120	Peniel, (IA)
Caddo Mills, (L4) 450 Cotton Gin, (L6) 100 Cain, (L5) 100 Cottonwood, (H5) 250 Calaveras, (J8) 200 Cotulla, (H9)1,880	D Elysian Fields, (N5). 220 Emberson, (M4) 150	Grand Prairie (K5), 994	(K5) 100 Jonah, (K7) 120 Jonesboro, (K6) 450 Josephine, (L4) 500	Love Valley (H7) 300	Mount Pleasant,	Perry, (L6)
Caldwell, (L7)1,476 Coupland, (K7)300 Call, (O7)1,000 Courtney, (M7)200	0 Embouse, (L5)	Grand View, (K5)1,018	Joshua, (K.5)	Tufkin (N6) 2.749	(N4)3,137	Pert, (M6)
Caddo Mills, (L4), 430 Cain, (L5), 100 Calaveras, (J8), 200 Caldwell, (L7), 1,476 Call, (O7), 1,000 Callis, (L4), 300 Callis, (L4), 300 Callispurg, (K4), 100 Calvert, (L7), 2,579 Caneron, (L7), 3,263 Canilla, (L5), 60 Camilla, (M7), 200 Camilla, (M7), 200 Canilla, (M7), 200 Caraes Mill, (L8), 60 Camilla, (M7), 200 Caraes Mill, (L8), 60	0 Emporia, (N6)	Grapeland, (M6) 400	Josserand, (N6) 300 Jourdanton, (J8) 100 Juan Saenz, (K10) 100 Junction, (H7) 800		Mount Sharp, (J7) 130 Mount Sylvan,	Incian, (127) 400
Cameron, (L7). 3,263 Crandall, (L5). 60 Camilla, (M7). 200 Cranes Mill, (J8). 10 Campbell, (M4). 700 Cranfills Gap, (K6). 10 Campbellton, (J9). 200 Crawford, (K6) 51	0 Engle, (84). 100 0 English, (N4). 200 0 Enloe, (M4). 326 0 Ennis, (L5). 5,669 6 Eola, (G6). 300 0 Era, (K4). 150 0 Escobares, (J11). 100	Grayburg, (N7)1,000 Greenville, (M4)8,850 Greenvice, (L7) 100	Juno, (F7) 150 Justin, (K4) 500 Karnack, (N5) 100 Karnes City, (K9) 1,150 Katemcy, (H7) 150 Katy, (M8) 200	Lyle, (N6) 100 Lyons, (L7) 300 Lyra, (J5) 1,194	Mount Vernon, (M4)	Pierce, (L8) 100 Pike, (L4) 150 Pilot Grove (L4) 250
Campbellton, (J9). 200 Crawford, (K6) 51 Camp San Saba, Cresson, (K5) 24 (H6) 180 Crete, (M6) 25	o Eola, (G6)	Greenway, (K5) 100 Greenwood, (K4) 300 Gregory, (K10) 300	Karnes City, (K9) 1,150 Katemcy, (H7) 150 Katy, (M8)	Lytle, (J8) 100 Lytton Springs,	Muldoop, (K8) 100 Mullin, (J6) 750 Mulock (F1)	Pilot Point, (K4). 1,371 Pine, (N5) 100 Pine Grove, (M5) 200
			ander, (4'40) 200	(457) 130	Addition, (Fifthern 100	Ame drove, (213) 200

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Pinebill, (N5) 200 Rabke, (I Ragley, (I Pine Island, (N7) 100 Ragley, (I Pine Island, (N7) 200 Pine Valley, (M7) 200 Pisek, (L8) 100 Randolph Pisek, (L8) 100 Randolph Pisek, (L8) 100 Randolph Pisek, (L8) 100 Radolph Pisek, (L8) 100 Red Rock Poetry, (L5) 300 Redwater, (L9) 150 Renner, (M8) 100 Redwater, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M8) 100 Renlig, (M9) Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, (J4) 200 Richland Postosk, 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Creek, (H4). 130 Spring Creek, (H4). 100 Sprinkle, (K7). 100 Sprinkle, (K7). 100 Stack, (N6). 150 Stacy, (H6). 200 Stack, (N6). 150 Stacy, (H6). 200 Stamford, (H5). 3,902 Standart, (G8). 150 Stamford, (H5). 1,400 Standart, (G8). 150 Starpille, (M5). 120 Starpille, (M5). 120 Steep Creek, (N6). 150 Steep Creek, (N6). 150 Steep Creek, (N6). 150 Steephenville, (J5). 2,561 Sterille, (H5). 150 Steephenville, (J5). 2,561 Sterille, (H6). 150 Stockdale, (K8). 1,250 Stockdale, (K8). 1,250 Stockdale, (K8). 1,250 Stochuburg, (K4). 100 Stonewll, (J7). 200 Stonewll, (J7). 200 Storwell, (N8). 150 Strawn, (J5). 1,000 Strawn, (J5). 1,000 Strawn, (J5). 1,000 Strawn, (K4). 150 Streetman, (L6). 100 Strawn, (K8). 250 String Prairie, (K8) String Prairie, (K8) Strubner, (M7). 200 Sulphur Springs, (M4). 330 Sulphur Springs, (M4). 100 Sunner, (M4). 100 Sunner, (M4). 100 Sunner, (M4). 100 Sunner, (M4). 100 Sunner, (M4). 100 Sunner, (M4). 100 Sunshine, (K10). 200 Sunshine, (K10). 200 Sunshine, (K10). 200 Sweet Home, (L8). 500 Sweet Home, (L8). 500 Sweet Home, (L8). 500 Sweet Home, (L8). 500 Salphur Springs, (J8). 150 Sweet Home, (L8). 500 Sweet Home, (L8). 500 Sweet Home, (L8). 500 Salphur, (M6). 100 Salphu, (M5). 150 Salphu, (M5). 150 Salphu, (M5). 150 Sweet Home, (L8). 500 Salphur, (M6). 100 Salphur, (M7). 100	Taylorsville, (K.8). 100 Teague, (L6). 3,288 Tehuacana, (L6). 425 Temple, (K6). 10,993 Tennha, (N6). 491 Tennessee Colony, (M6). 100 Tennussee Colony, (M6). 100 Tennyson, (G6). 100 Terlingua, (D8). 200 Terrell, (L5). 7,050 Texarkana, (O4). 9,790 Texas City, (N8). 400 Texala, (O7). 500 Texiline, (E1). 100 The Grove, (K6). 100 The Grove, (K6). 100 The Grove, (K6). 100 Theta, (M4). 400 Thompsons, (M8). 100 Thorndale, (K7). 600 Thornton, (L6). 678 Thorp Spring, (K5). 400 Thorekmorton, (H4). 600 Thurber, (J5). 4,500 Tilden, (J9). 500 Todd, (M7). 100 Todd, (M7). 100 Todd, (M7). 100 Todsen, (H5). 200 Tom Bean, (L4). 288 Tool, (L5). 100 Tom Bean, (L4). 288 Tool, (L5). 100 Tornerials, (J10). 100 Tornerials, (J10). 100 Tornerials, (J10). 100 Tornethin, (M5). 100 Trenton, (L4). 550 Traity, (M7). 850 Trinity, (M7). 120 Trinity, (M7). 120 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100 Trumbull, (I,5). 100	Verona, (L4) 100 Verosey, (M4) 100 Victoria, (L9) 3,673 View, (J8) 450 Village Mills, (N7) 400 Vincent, (F5) 200 Vineyard, (K4) 150 Voss, (H6) 700 Waco, (K6) 26,425 Wade, (K8) 150 Wadsworth, (M9) 100 Waelder, (K8) 1,400 Waller, (K8) 1,400 Wallis Station, (L8) 880 Wallis Station, (L8) 880 Wallis Station, (L8) 1,340 Warda, (L7) 1,00 Warren, (K5) 1,340 Warrda, (L7) 1,00 Warrenton, (L7) 400 Warrenton, (L7) 400 Warrenton, (K5) 1,340 Warrenton, (K5) 1,500 Warrenton, (K7) 400 Warrenton, (L8) 150 Waterwaller, (K8) 200 Weseatche, (K9) 100 Welloorn, (L7) 200 Welloorn, (L7) 200 Wesley, (K9) 110 Wesley, (L7) 200	Westbrook, (F5)			
	UTAH								

VERMONT

1	Evarsville, (F4) 300 Fafax, (C5) 1,318 Fairfield, (C4) 1,778 Fair Hayen, (B9) 2,554	Hortonville, (A9) 190 Hubbardton, (B9) 455	Milton, (B5) 634 Monkton, (B7) 724	North Pownal, (B12) 600 North Randolph,	Reading, (D10) *530 Readsboro, (C12) 835 Richford, (D4)1,948 Richmond, (C6) 828	(F7) 23	O Thetford, (E8) 1.182 Thetford Center,	West Dummerston,
	Fairlee, (F8) 438 Fayston, (C7) 452	Huntington Center, (C6) 300	(B6) 100	North Sheldon, (C4) 110 North Sherburne,	Ripton, (B8) 421 Riverside, (C5) 100	South Northfield, (D7)	Tice. (F4) 200	(D12)
	Felchville, (D10) 400 Ferrisburg, (B7) 1,433 Fisk', (A4) 100	Hydeville, (A9) 700 Ira, (B9) 286	Montgomery Center, (D4)800		Rochester, (C8). 1,317 Rockingham, (D11) 100 Roxbury, (C7) 615	South Peacham, (F6)	0 Townshend, (D11) 817	Westfield, (E4) 613 Westford, (B5) 854 West Georgia, (B5) 200
	Fitzdale, (H6) 100 Fletcher, (C5) 737	Irasburg, (E4) 983 Island Pond, (G4) 1,573	MONTPELIER, (D6)7,856	North Springfield, (D10)	Royalton, (D8)*1,452 Rupert, (B10)*825	(D9)	0 Tunbridge, (E8) ■918 Tyson, (D10) 100	West Halifax, (D12) 350
	Forestdale, (B8) 260 Fort Ethan Allen,	Isle La Motte, (A4) 510 Jacksonville, (C12) 212 Jamaica, (D11) 716	Moretown, (D6)886 Morgan, (F4)463 Morgan Center.	North Thetford, (F8)	Rutland, (C9)13,546 Ryegate, (F7) 150 Saint Albans, (B4) 6,381	(B10)	Underhill Center.	West Lincoln, (C7) 200 West Milton, (B5) 100
	(B5)	Jay, (E4)513 Jeffersonville, (C5) 650	(G4)	North Tunbridge, (E8)	Saint Albans Bay, (B4) 110	South Royalton, (E8)	Union Village, (E8) 180 Vergennes, (B7) 1.483	Westminster, (E11)1.327
	Gallup Mills, (G5) 100 Gassetts, (D10) 100 Gaysville, (D8) 550	Jericho, (C6)1,307 Jericho Center, (C6) 275 Johnson (D5) 651	Morrisville, (D5)1,445 Moscow, (D6) 130 Mount Holly,	North Williston, (B6) 550 North Wolcott, (E5) 170	Saint Johnsbury, (G6)6,693 Saint Johnsbury	South Ryegate, (F7) 37 South Shaftshury, (B12)	Vershire, (E8) 448	Westminster Station, (D11) 200
	Georgia, (B5)*1,090 Georgia Plain, (B5) 150	Jonesville, (C6) 200 Lake, (G4) 130	(C10)	Norton Mills, (G4) 150 Norwich, (E9) 1,252	Center, (G6) 300 Saint Johnsbury	South Starksboro, (B7)	Waitsfield, (C7) 709 Waits River, (E7) 150	Westminster West, (D11)
	Glen, (C9)	Lake Dunmore, (B8)	Newbury, (F7) 412 Newfane, (D12) 136 New Haven (B7) 1165	Orleans, (F4)1,131	East, (G6) 150 Salisbury, (B8) 693 Sandgate, (B11) 401	South Strafford, (E8)	Walden, (F6) 739 Wallingford,	West Newbury, (F7) 100 Weston, (C10) 632 West Pawlet, (B10) 900
	Grafton, (D11) 729 Granby, (H5) 95	Larrabees Point, (A8)100	New Haven Mills, (B7)	Paoton, (A7) 345 Passumpsic, (G6) 250	Saxtons River, (D11)1,000	South Walden, (E6) 20	Wallispond, (H4) 140 Wardsboro, (D11) **559	West Rupert, (A11) 300 W. Rutland, (B9) 3.427
	Grand Isle, (A5) 839 Graniteville, (D7) 400 Granville, (C8) 464	Leicester June (B8) 325	Newport, (F4)2,548 Newport Center,	Pawlet, (B10)*1,959 Peacham, (F6)*777 Perkinsville, (D10) 600	Searsburg, (C12)142 Shaftsburg, (B11) 1,650 Sharon, (E8)585	(C10)	Warren, (C7) 825 Washington, (E7) 762	West Topsham, (E7) 375 West Townshend.
	Green River, (D12) 200 Greensboro, (E5) 931	Lincoln, (C7) 980 Londonderry, (D11) 962	North Bennington.	Peru, (C11)242 Pittsfield, (C8)402 Pittsford, (C9)2,479	Sheffield. (F5) 691	South Wheelock, (F5) 10	Waterbury Center, (D6)	(D11)
	Greensboro Bend, (F5)	Loweli, (E4)1,086 Lower Cabot, (E6) 250 Lower Waterford,	North Clarendon,	Pittsford, (C9) 2,479 Pittsford Mills, (C9) 400 Plainfield, (E6) 388	Sheldon Springs,	South Whitingham, (C12) 10 South Windham,	Waterford, (G6) 629 Waterville, (D5) 485	Weybridge, (B7) 494 Wheelock, (F5) 500
	Guildhall, (H5) 445 Guilford, (D12) 769	(G6)	North Craftsbury, (E5)	Pleasant Valley,	(B4)	(D11)	Websterville, (D7) 100	White River Junction, (E9)2,500 Whiting, (B8) 348
	Halifax, (D12) 635 Hancock, (C8) 287	Lunenhurg, (H6) 880 Lyndon, (F5) 960 Lyndon Center, (F5) 259	North Danville, (F6)	Plymouth, (D9) 482 Plymouth Union,	Shoreham Center, (A8)	South Woodstock,	Wells, (B10) 569 Wells River, (F7) 608	Whitingham, (C12) 300 Wilder, (E9) 370
	Hanksville, (C6) 100 Hardwick, (E6)2,094 Hartford, (E9) 4,179	Lyndonville, (G5)1,573 McIndoe Falls, (F6) 400	(C6)	Pomfret, (D9) 703 Pompanoosuc, (E8) 150	Shrewsbury, (C9) *751 South Albany, (E5)	(D9)	(B11)	Williamstown, (D7)
	Hartland, (E9)1,316 Hartland Four Corners, (E9) 150	Manchester Center,	(B6) 850	Post Mills, (E8) 250 Poultney, (B9)1,474 Pownal, (B12) 1,599	South Burlington,	Stannard, (F5) 200 Starksboro, (B7) 833 Stevens Mills, (D4) 130	(D4) 300	(D12)
	Harvey, (F6) 100 Heartwellville, (B12) 200	Manchester Depot, (B11)	Northfield Falls,	Proctor, (C9)2,756 Proctorsville, (D10) 575	South Cabot, (F6) 250 South Danville, (F6) 150	Stockbridge, (D8)	West Bolton, (C6) 180 West Brattleboro,	Windham, (D11) 345
	Highgate Center,	Marshfield, (E6) 1.011	North Hartland, (E9)	Putnamville, (D6) 100 Putney, (D12) 788	South Hero. (A5) 605	Strafford, (E8) 776 Stratton, (D11) 886	(D12)	Windsor, (E10)1,906 Winooski (B6) 4 520
	Highgate Springs, (B4) 200	Middlebury, (B7)1,866 Middlesex, (D6) 858	North Hyde Park, (D5) 500	Randolph, (D8)1,787 Randolph Center,	South Londonderry, (C11) 500	Sunderland, (B11) 494 Sutton, (G5) 711	West Burke, (G5) 600 W. Charleston, (F4) 600	Woodbury, (E6) 824 Woodford, (B12). 8187
	Hinesburg, (B6) 242 Holden, (C9) 100	Middletown Springs, (B10)716	North Montpelier, (E6) 400	(D8)	South Lunenburg.	Swanton, (B4)1,236	W. Cornwall, (B8) 210 West Danville, (F6) 400	Woodstock, (E9), 1.383
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VIRGINIA

WASHINGTON

Burton, (F4) 100 Camano, (E2) 150	Deertrail, (O2) 100 Deming, (F1) 100	Goshen, (F1) 100 Govan, (N3) 140	Larson, (F1) 150 Latah, (Q4) 339	Nighthawk, (L1) 100 Nooksack, (F1) 100	Rainier, (E5) 150 Ravensdale, (G4) 400	Startup, (G2) 180 Steilacoom, (E4) 430	Zenith, (F4) 100 Zillah, (K6) 230
			WEST V	IRGINIA			
Acme. (D4). 500 Adam. (D6). 100 Adamston. (F2). 1,200 Adkin. (C5). 200 Adkin. (C5). 200 Advance. (E5). 130 Alaska. (J1). 180 Albert. (H2). 300 Albert. (H2). 300 Albert. (H2). 300 Albert. (H2). 300 Albert. (E5). 1,252 Alexander. (F3). 300 Algoma. (D6). 300 Algoma. (D6). 300 Alingdale. (E4). 100 Alpena. (G3). 130 Alum Bridge. (E2). 100 Alum Bridge. (E4). 150 Alum Bridge. (E4). 150 Alum Creek. (C4). 150 Alumoville. (C4). 300 Alvord. (D3). 229 Alvy. (E2). 700 Any. (C4). 150 Anawalt. (D6). 300 Andrew. (C4). 150 Andrew. (C4). 150 Angerona. (C3). 100 Ansted. (D4). 1,030 Anthony. (F5). 100 Antioch. (J2). 100 Arches. (E2). 100 Arches. (E2). 100 Arge. (E5). 100 Arge. (E5). 100 Arge. (E5). 100 Arnett. (D5). 180 Arnoldsburg. (D3) 150 Arnoldsburg. (D3) 150 Arnoldsburg. (E6). 575 Auburn. (E2). 199 Augustz. (J2). 100 Austen. (E2). 150 Austen. (E2). 150 Austen. (E2). 150 Austen. (E2). 150 Austen. (E2). 150 Austen. (E2). 150 Austen. (E2). 150	Baileysville, (C5). 250 Bakerton, (L2). 500 Bancrolt, (C3). 100 Barboursville, (B4) 907 Barnestown, (F2). 655 Barnesville, (F2). 100 Barnum, (H2). 200 Barrackville, (F2). 100 Barnum, (H2). 250 Barrea Creek, (D4) 100 Bassin, (D5). 100 Bass, (J3). 220 Baxter, (F1). 250 Bayard, (H2). 417 Beale, (B3). 200 Beard, (F4). 100 Beckley, (D5). 2,161 Bedington, (L1). 160 Beech, (D3). 200 Belvan, (H2). 481 Belleville, (C2). 250 Belvan, (G2). 1,481 Belleville, (C2). 250 Belvan, (D4). 150 Benwood, (A2). 4,976 Berea, (E2). 110 Berkeley Springs, (K1). 864 Berryburg, (F2). 500 Berwind, (C6). 500 Bethan, (A2). 433 Beulah, (G3). 330 Beury, (A2). 433 Beulah, (G3). 300 Beury, (J3). 438 Bigfour, (C3). 433 Bigfour, (C6). 500 Beverly, (G3). 438 Bigfour, (C3). 408 Bigfour, (C6). 500 Big Springs, (C3). 200	Blakeley, (D4). 300 Blocton, (B5). 100 Bluefield, (D6). 11,188 Blue Jay, (D5). 500 Bolivar, (L2). 687 Bolt, (D5). 240 Bonnie, (E3). 150 Boomer, (D4). 1,000 Boone, (E4). 200 Boothsville, (F2). 300 Borderland, (B5). 250 Bower, (E3). 300 Bower, (E3). 300 Bower, (E3). 300 Bower, (E4). 200 Bradyelle, (B4). 100 Bragyelle, (B4). 100 Bragyelle, (B4). 100 Bragwelle, (B4). 100 Branderle, (B5). 1,458 Branchland, (B4). 500 Brandonville, (G1). 96 Brandonville, (G1). 96 Brandonville, (G1). 140 Bridgeport, (F2). 577	Burning Springs, (D2)	Chester, (A1)	Cressmont. (194). 130 Crete, (B4). 100 Crete, (B4). 100 Crisp, (92). 100 Crow. (D5). 100 Crow. (D5). 100 Crow. (15). 100 Crow. (15). 100 Crow. (15). 100 Crys. 1 (D6). 500 Crys. 1 (D6). 500 Culloden. (B4). 100 Cuttin, E4). 200 Dade 1). 100 Dade 1). 100 Dade 1). 100 Dall. (A2). 250 Dana (4). 100 Dana (5). 150 Dan. (4). 300 Dan. (4). 300 Dan. (K2). 230 Davis. 2). 2,615 Davis. 10. 100 Davis. (10). 100 Davis. 10. 100 Davis. 10. 100 Davis. 10. 100 Davis. 10. 100 Davis. 10. 100 Davis. 10. 100 Davis. 10. 100 Dian. F3. 200 Deepw. 1 (F4). 150 Dian. F3. 200 Dick. R4). 100 Dille (D4). 150 Ding. (B5). 250 Donc. (B8). 100 Dobbin. (H2). 500 Doth (D5). 200 Doth (D5). 200 Doth (D5). 200 Doth (D5). 200 Doth (D5). 250 Dunc. (C3). 150	EastLynn, (B4), 551 East Lynn, (B4), 100 Eccles, (D5), 400 Eccles, (D5), 400 Echer, (C5), 100 Echer, (C5), 100 Echer, (C5), 100 Eckman, (D6), 1,000 Edgetwood, (A2), 1,455 Gloa, (G2), 200 Edgetwood, (A2), 1,455 Gloan, (C6), 100 Elker, (C6), 100 Elkinger, (C6), 100 Elkinger, (D4), 350 Ellamore, (F3), 500 Ellamore, (F3), 500 Ellamore, (F3), 500 Ellamore, (F3), 500 Ellamore, (F3), 500 Ellamore, (F3), 500 Ellamore, (F3), 100 Elyerton, (D4), 250 Enmons, (C4), 200 Enmons, (C4), 200 Enmons, (C4), 200 Enterprise, (F2), 300 Ellacon, (E3), 200 Ellacon, (E3), 200 Ellacon, (E3), 200 Ellacon, (E3), 100 Everson, (F2), 110 Fairbanks, (E3), 150	Farmington, (F2). 519 Fayette, (D4). 399 Fayetteville, (D4) 671 Fellowsville, (G2). 156 Fenwick, (E4). 500 Fetterman, (F2). 806 Finlow, (E5). 200 Fire Creek, (E5). 255 Flatrock, (C3). 100 Flatrun, (F1). 200 Flat Woods, (E3). 284 Flemington, (F2). 256 Foley, (C5). 200 Follansbee, (A2). 2,031 Folsom, (E2). 606 Forest Hill, (E5). 120 Fort Gay. (A4). 457 Fort Spring, (E5). 130 Fourteen, (B4). 100 Frametown, (E3). 163 Franklord, (F5). 100 Frametown, (E3). 163 Franklord, (F5). 100 French (C7). 100 Freed, (D2). 100 Freed, (D3). 100 French (D6). 1,000 French (D6). 1,000 French (D7). 100 French (D6). 1,000 Frozencamp, (C3). 144 Fulton, (A2). 1,033 Gallipolis Ferry, (B3). 10 Gandeeville, (D3). 150 Gardnet, (C6). 1,000 Garnet, (C4). 1,800 Gassaway, (E3). 1,08 Gassoon, (F2). 100 Galley Birdse, (D4). 510 Gandeleville, (D3). 150 Gandesville, (D3). 150 Gardnet, (C6). 1,200
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Hinkleville, (F3). 130 Hinton, (E5). 3,656 He den, (B5). 2,000 Ildays Cove, (A2) 200 dy, (E3). 100 Frapea, (CS)., 150	Laylard, (E5) 500 Layopolis, (E3) 156 Lazearville, (A2) 500 Leander, (E4) 200 Leatherwood, (A2) t44 Lee Bell, (G3) 100	Metz. (F1	Olcott, (C4) \$00 Olmstead, (C6) 260 Omps, (K2) 100 Ona, (B4) 100 Oneal, (D5) 300 Orlando, (E3) 100	Queea Shoals, (D4) 180 Queens Ridge, (B4) 130 Quick, (D4) 100 Quiet Dell, (F2) 250 Quincy, (D4) 150 Quinnimont, (E5) 400	Shenandaah Junction, (L2) 300 Shepherdstown, (L2) 1,070 Sheppard, (B5) 150 Sheridan, (B4) 200		Woodsdale, (A2) 831 Worth, (D6) 300 Worthington, (F2) 292 Wright, (D5) 250 Wyatt, (F2) 100 Wyndal, (D4) 200
			WISC	ONSIN			
Abbotsford, (G5). 947. Ableman. (H7). 448. Abrams, (L5). 200 Adams, (H7). 500 Adams, (H7). 500 Adams Center, (E7). 100 Addison, (L8). 180 Adell, (M7). 400 Afton, (J9). 150 Alban, (J5). 110 Alban, (J9). 250 Algonia, (NS). 2,082 Aliceton, (K8). 110 Alleagrove, (K9). 100 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 450 Alleuton, (L8). 150 Alleuton, (L8). 150 Alleuton, (L8). 150 Alleuton, (L8). 250 Alleuton, (L8). 250 Alleuton, (L8). 250 Amherst, (J6). 350 Amery (C4). 659 Amherst Junction, (J6). 47,196 Apollonia, (E4). 100 Appleton, (L6). 17,492 Arborvitae, (H3). 800 Arcadia, (E6). 1,212 Arena, (H8). 390 Argyle, (H9). 603 Arkansaw, (C5). 200 Arkdale, (H6). 100 Arpin, (G8). 150 Arpin, (G8). 150 Arpin, (G8). 200 Ashiord, (L7). 130 Ashippun, (L8). 150 Alleuton, (L8). 150	Baileys Harbor, (N4). 250 Baldwin, (C5) 584 Balsam Lake, (C4) 279 Bancroft, (J6) 200 Bangor, (F7) 692 Baraboo, (H8) 6,324 Barnes, (E2). 150 Barneveld, (H9) 317 Barnum, (F8) 150 Barron, (D4). 1,449 Barronett, (C3) 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bayaria, (J4). 200 Bear Creek, (K5) 341 Beaver, (L4). 100 Beaverdam, (K8). 49 Bechwood, (M7). 150 Belchoule, (B5). 150 Belchoule, (J9). 42 Belleville, (J9). 42 Belleville, (J9). 42 Belleville, (J9). 42 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9). 43 Belleville, (J9).	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WYOMING
1915 STATE CENSUS FIGURES

Aladdin, (H2) 100 Car Albin, (H5) 100 Cas Almy, (B5) 350 C F Atlantic City, (D4) 110 (Auburn, (A4) 60 Cle Baggs, (E5) 157 Co Banner, (F2) 100 Col Barber, (F2) 100 Col Basin, (D2) 728 Co	thon, (FS) 117 meyville, (F2) 200 sper, (F4) 4,040 H E Y E N N E, 4,040 H S J E N N E, 100 dy, (C2) 1,035 keville, (B4) 305 ra, (C4) 120 whey, (D2) 630	Dougas, (G4) 1,843 Dubois, (C3) 142 Eghert, (H5) 100 Elk Mountain, (F5) 177 Elkol, (B5) 150 Embar, (D3) 140 Encampment, (F5) 218 Evanston, (B5) 2,756 Fairview, (A4) 100 Featon, (D2) 100	Frontier, (B5)	Jackson, (B3). 204 Kaycee (F3). 57 Kemmerer, (B5). 1,481 Keystone, (F5). 75 Kinnear, (D3). 100 Kool, (F2). 100 Loader, (D4). 1,726 Laramie, (G5). 4,926 Lonetree, (B5). 100 Lost Cabin, (E3). 55	Meeteetse, (D2) 22 Milo, (F5) 10 Monarch, (E2) 38 Moneta, (E3) 13 Moorcroft, (H2) 13 Newcastle, (H3) 65 Oakley, (B5) 20 Otto, (D2) 20 Pine Bluff, (H5) 65 Powell, (D2) 40	Shoshoni, (D3) 278 Smoot, (B4) 150 South Pass City, (D4) 150 South Superior, (D5) 265 Speacer, (H3) 100	Ten Sleep, (E2) Thayne, (A4) Thermopolis, (D3) Torrington, (H4) Upton, (H2) Urie, (B5) Valley, (C2) Wamsutter, (D5) Wheatland, (H4) Wilson, (B3)
Rawbon (E2) 100 Cor	ra (C4) 120	Fairview, (A4)	Guernsey, (H4) 239	Lonetree, (B5) 100	Pine Bluff, (H5) 656	South Superior, (D5) 265	Wheatland, (H4)
Rig Horn. (F2) 130 Cu	mberland, (B5)_ 330	Fort Bridger, (B3) 100	Halfway, (B4) 100 Hanna, (F5) 1,347	Lovell, (D2) 640	Ranchester, (E2) 150	Sublet, (B5) 524 Sundance, (H2) 341	Winchester, (D3)
Bosler, (G5) 120 Da Buffalo, (F2) 1,246 Da Burlington, (D2) 250 Dia	ayton, (E2) 177	Ft. Mackenzie, (F2) 100 Fort Russell, (H5) 500	Hartville, (H4) 105 Hudson, (D4) 428	Lyman, (B5) 182 Manderson, (D2). 175	Raymond, (D2) 100 Riverside, (F5) 5	Sunrise, (H4) 200 Sunshine, (D2) 140	Worland, (E2) Yellowstone Park.
Burns, (H5) 200 Di	ietz, (F2) 400	Fort Washakie, (D3) 150	Hulett, (H2) 100	Manville, (H4) 133	Riverton, (D3) 803	Superior, (D5)1,382	(B2)







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